

Table A23. The Impact of Arrest Volumes on Crime Rates - Macro-level Longitudinal Studies

Study	Sample	Analysis	Causal Order	Design	Sample Type	Arrest Measure	Crime Type	#IV	INCAP	Findings
Hoernack & Weiler (1980)	U.S., 1935-1969	2SLS	I.V.	Time Series	CE	# of Arrests	Murder	8	No	+, p> .05
							Burglary	1	No	-, p> .05
Jacob & Rich (1980)	Atlanta, 1965-1978	Correl.	Lags	Time Series	CE	# of Arrests	Robbery	1	No	+, p= ?
	Boston, 1958-1978						+, p= ?			
	Houston, 1966-1978						+, p= ?			
	Minneapolis, 1947-78						+, p= ?			
	Newark, 1955-1978						+, p= ?			
	Oakland, 1969-1978						-, p= ?			
	Philadelphia, 1957-1978						+, p= ?			
	Phoenix, 1956-1978						+, p= ?			
	San Jose, 1965-1970						+, p= ?			
Decker & Kohfeld (1985)	St Louis, 1948- 1978	GLS	Lags	Time Series	Non Prob.	# of Arrests	Robbery	5	No	+, p > .05
							Burglary			+, p > .05
							Murder			+, p < .001
Corman et al (1987)	New York City, 1970-1984	Granger	I.V.	Time Series	Non Prob.	Arrest / Pop.	Property	5	No	-, p< .05
Chamlin (1988)	Tulsa, 1967-1980	ARIMA	Lags	Time Series	Non Prob.	# of Arrests	Robbery	1	No	-, p< .05
							Burglary			?, p> .05
							Larceny			?, p> .05
							Auto theft			?, p> .05
	Oklahoma City, 1967-1980						Robbery			-, p< .05
							Burglary			?, p> .05
	Larceny			?, p> .05						
	Auto theft			?, p> .05						
Chressanthis (1989)	U.S., 1965-1985	OLS	None	Time Series	CE	# of Arrests	Homicide	12	Yes	?, p> .05
Bursik et al (1990)	5 nbhds, 100 weeks, OK, 1986	ARIMA	Lags	Time Series	Non Prob.	# of Arrests	Robbery	1	No	-, p= .26
Kohfeld & Sprague (1990)	114 St Louis Cen. tracks, 1982	OLS	Lags	Pooled	Non Prob.	# of Arrests	Burglary	1	No	-, p= .000
Chamlin et al (1992)	Oklahoma City, 1967-1980	ARIMA	Lags	Time Series	Non Prob.	# of Arrests	Robbery	1	No	-, p< .05

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Levitt (1995)	59 U.S. cities, 1970-1992	OLS	Lags	Panel	CE	Arrest / Pop.	Burglary	10	Yes	?, p> .05
							Larceny			?, p> .05
							Auto theft			-, p< .01
							Murder			-, p< .05
							Rape			-, p< .05
							Robbery			-, p< .05
							Assault			-, p< .05
							Burglary			-, p< .05
D'Alessio & Stolzenberg (1998) Corman & Morcan (2000)	Florida, 184 days, 1991	VARMA	Lags	Time Series	Non Prob.	# of Arrests	Index	3	Yes	-, p= ?
	New York City, 1970-86	2SLS	I.V.	Time Series	Non Prob.	# of Arrests	Robbery	1	No	-, p< .01
							Assault			-, p> .10
							Murder			-, p> .05
							Burglary			-, p< .01
							Auto theft			-, p< .01
							Homicide	17	Yes	-, p> .05
							Robbery			-, p< .05
Mocan & Gittings (2001)	U.S., 1977-1997	OLS	Lags	Time-Series	CE	Hom. Arrest Rate Gen. Arrest Rate	Burglary	17	Yes	-, p< .05
							Auto theft			-, p< .01
							Rape			-, p> .05
							Auto-Theft			-, p> .05
							Murder			-, p> .10
Corman & Mocan (2005)	312 months, NYC, 1974-99	OLS	Lags	Time Series	CE	# of Arrests	Assault	6	No	+, p> .10
							Burglary			-, p> .10
							Robbery			-, p< .01
							Auto Theft			-, p< .05
							Theft			-, p< .01
							Rape			-, p> .10
Spelman (2005)	254 counties, Texas, 1990-00	2SLS	I.V.	Panel	CE	Arrests / Pop.	Drugs	30	Yes	-, p< .05
							Weapons			-, p< .05
							Public Order			-, p< .05
							Violent			+, p> .05
							Property			+, p> .05

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Mocan & Gittings (2006)	50 States, 1997-2007	OLS	Lags	Panel Time Series	CE	Arrests / Pop.	Homicide	20	Yes	- , p> .05
	Kansas, 1997-2007									+ , p> .05
	New Hampshire, 1997-2007									+ , p> .05
	Massachusetts, 1997-2007									- , p> .05
	Rhode Island, 1997-2007									- , p> .05
	New York, 1997-2007									- , p> .05
	New Jersey, 1997-2007									- , p> .05
Rosenfeld et al (2007)	76 precincts, NYC, 1988-2001	HLM	None	Panel	CE	# of Arrests	Robbery Homicide	5	No	- , p< .001 - , p< .001
Kane & Cronin (2009)	188 cen. tracks, D.C., 2000-05	Neg. Bin.	None	Panel	Non Prob.	# of Arrests	Violent Assault Robbery	9	No	+ , p> .05 + , p< .05 + , p> .05
Taylor et al (2009)	23 dist., PA, monthly, 96-02	Neg. Bin.	Lag > 1 year	Panel	Non Prob.	Arrests / Pop.	Delinquency	26	No	- , p> .05 + , p> .05
Friedman et al (2011)	93 SMSAs, 1992-2002	MLE	Lags	Panel	CE	Arrests / Pop.	Inj. Drugs	9	No	? , p> .05
Garret & Ott (2011)	20 Large U.S. Cities, 1983-04	OLS	Lag < 1 year	Panel	CE	Arrests / Pop.	Murder Rape Assault Robbery Burglary Larceny Auto Theft	7	No	- , p> .05 - , p> .05 - , p> .05 - , p< .05 - , p> .05 - , p> .05 - , p> .05
Hannon & Defina (2012)	N.C. counties, 1995-2009	2SLS	I.V.	Panel	CE	Arrests / Pop.	Juvenile	8	Yes	+ , p< .01
Jang et al (2012)	12 PFAs, Tx, weekly, 2007-08	Poisson	Lags	Panel	Non Prob.	# of Arrests	Violent Property Nuisance Index	7	No	- , p> .05 - , p> .05 + , p> .05 - , p> .05
Pinto (2013)	Baltimore, Months, 1998-2010	OLS	Lags	Time Series	CE	Arrests / Pop.	Property	4	No	- , p< .05
	Violent						? , p> .05			
	Property						? , p> .05			
	Violent						? , p> .05			
Charles. S.C, Months, 1998-10	Property	? , p> .05								
Charles. WV, Months 1998-10	Property	? , p> .05								
	Violent	- , p< .05								

Study	Sample	Analysis	Causal Order	Design	Sample Type	Arrest Measure	Crime Type	#IV	INCAP	Findings
	Charlotte, Months., 1998-2010						Property			?, p>.05
	Richmond, Months, 1998-10						Violent			-, p< .05
							Property			?, p> .05
							Violent			?, p> .05
Corman & Mocan (2015)	N.Y.C., monthly, 1983-2004	2SLS	IV	Time Series	CE	# of Arrests	Assault	5	No	-, p> .05
							Rape			+, p> .05
							Murder			-, p> .05
							Robbery			-, p< .01
							Burglary			-, p< .01
							Auto Theft			-, p< .05
							Larceny			-, p< .05

Clarification on Commonly Used Abbreviations in Table 23

Column Headings

#IV- Number of Independent Variables in the Analysis
 INCAP- Did the study control for an incapacitation variable?

Abbreviations Located Under Column Headings

ARIMA- Autoregressive Integrated Moving Average
 CE- Complete Enumeration
 Cen. Tracks- Census Tracks
 Charles S.C. -Charleston, South Carolina
 Charles W.V.- Charleston, West Virginia
 Correl- Correlation Coefficient
 D.C.- District of Columbia
 Gen. Arrest Rate- General Arrest Rate
 GLS- Generalized Least Squares Regression
 HLM- Hierarchical Linear Model
 Hom. Arrest Rate- Homicide Arrest Rate
 Inj. Drugs- Injection Drug User Rate

I.V.- Instrumental Variables
MLE- Maximum Likelihood Estimate
Nbhds- Neighborhoods
N.C.- North Carolina
Neg. Bin.- Negative Binomial Regression
Non Prob. – Non Probability
N.Y.C.- New York City
OK- Oklahoma
OLS- Ordinary Least Squares Regression
PA- Pennsylvania
PFA- Police Force Area
Pop.- Population
TX- Texas
VARMA- Vector Autoregressive Moving