



**Special Edition**

**15.1**

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StataCorp  
4905 Lakeway Drive  
College Station, Texas 77845 USA  
800-STATA-PC <http://www.stata.com>  
979-696-4600 [stata@stata.com](mailto:stata@stata.com)  
979-696-4601 (fax)

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Notes:

1. Unicode is supported; see [help unicode advice](#).
2. Maximum number of variables is set to 5000; see [help set\\_maxvar](#).

```
. doedit "C:\Users\pcg180000\Documents\BUAN 6312.004\Project\Project-Guns.do"

. do "C:\Users\PCG180~1\AppData\Local\Temp\16\STD1a8c_000000.tmp"

. clear all

. set more off

. use "C:\Users\pcg180000\Documents\BUAN 6312.004\Project\guns.dta", clear

. xtset stateid year
    panel variable: stateid (strongly balanced)
    time variable: year, 77 to 99
    delta: 1 unit

.

. gen lnvio = ln(vio)

.

end of do-file

. do "C:\Users\PCG180~1\AppData\Local\Temp\16\STD1a8c_000000.tmp"

. gen lnrob = ln(rob)

.

end of do-file

. do "C:\Users\PCG180~1\AppData\Local\Temp\16\STD1a8c_000000.tmp"

. gen lnmur = ln(mur)

.

end of do-file
```

```

. do "C:\Users\PCG180~1\AppData\Local\Temp\16\STD1a8c_000000.tmp"

. xtreg lnmur i.shall incarc_rate avginc density pop pb1064 pw1064 pm1029 i.year, fe cluster(stateid)

Fixed-effects (within) regression              Number of obs   =       1,173
Group variable: stateid                     Number of groups =        51

R-sq:                                         Obs per group:
    within = 0.2905                             min =          23
    between = 0.1945                             avg  =         23.0
    overall = 0.1413                             max  =          23

                                         F(30,50)         =       81.49
corr(u_i, Xb)  = -0.8336                       Prob > F          =       0.0000

```

(Std. Err. adjusted for 51 clusters in stateid)

lnmur	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
1.shall	-.0149524	.0382403	-0.39	0.697	-.0917603	.0618556
incarc_rate	-.0001164	.0003631	-0.32	0.750	-.0008457	.0006129
avginc	.0566492	.0165554	3.42	0.001	.0233967	.0899017
density	-.5442635	.3192203	-1.70	0.094	-1.185436	.0969093
pop	-.0320769	.0209819	-1.53	0.133	-.0742202	.0100664
pb1064	.0219833	.0758151	0.29	0.773	-.1302958	.1742624
pw1064	-.0004893	.0201044	-0.02	0.981	-.0408701	.0398915
pm1029	.0691941	.0417945	1.66	0.104	-.0147526	.1531408
year						
78	-.0007195	.0322722	-0.02	0.982	-.0655401	.0641011
79	.0592481	.0311141	1.90	0.063	-.0032465	.1217427
80	.0901814	.041058	2.20	0.033	.0077139	.1726489
81	.1021543	.0510636	2.00	0.051	-.00041	.2047186
82	.0224098	.0581861	0.39	0.702	-.0944604	.1392799
83	-.0314385	.0640621	-0.49	0.626	-.1601111	.0972341
84	-.1359192	.071662	-1.90	0.064	-.2798565	.0080181
85	-.0866144	.0856965	-1.01	0.317	-.2587409	.0855122
86	-.0122752	.0927286	-0.13	0.895	-.1985262	.1739758
87	-.0290338	.0999408	-0.29	0.773	-.2297707	.1717032
88	-.0174594	.1196893	-0.15	0.885	-.2578626	.2229437
89	-.0145617	.1321034	-0.11	0.913	-.2798993	.2507759
90	.059998	.1649718	0.36	0.718	-.2713577	.3913537
91	.1053071	.1754909	0.60	0.551	-.2471767	.4577909
92	.0681002	.1828352	0.37	0.711	-.2991352	.4353355
93	.1544297	.1898113	0.81	0.420	-.2268176	.535677
94	.0442648	.1971908	0.22	0.823	-.3518047	.4403342
95	.0556601	.1989082	0.28	0.781	-.3438588	.455179
96	-.015709	.2125365	-0.07	0.941	-.4426011	.4111831
97	-.1221824	.2186706	-0.56	0.579	-.5613952	.3170304
98	-.1863381	.2332966	-0.80	0.428	-.6549281	.2822519
99	-.2554286	.2420434	-1.06	0.296	-.741587	.2307298
_cons	.1882653	1.056771	0.18	0.859	-1.934322	2.310853
sigma_u	1.1362086					
sigma_e	.20281999					
rho	.96911961	(fraction of variance due to u_i)				

```
. testparm i.year
```

```
( 1) 78.year = 0
( 2) 79.year = 0
( 3) 80.year = 0
( 4) 81.year = 0
( 5) 82.year = 0
( 6) 83.year = 0
( 7) 84.year = 0
( 8) 85.year = 0
( 9) 86.year = 0
(10) 87.year = 0
(11) 88.year = 0
(12) 89.year = 0
(13) 90.year = 0
(14) 91.year = 0
(15) 92.year = 0
(16) 93.year = 0
(17) 94.year = 0
(18) 95.year = 0
(19) 96.year = 0
(20) 97.year = 0
(21) 98.year = 0
(22) 99.year = 0
```

```
      F( 22,      50) =    19.61
      Prob > F =      0.0000
```

```
.
end of do-file
```

```
.
```