

99%	46.	4	80	. 6	Kurtosis	48.49532
	Robbery	Crime	Rate per	100,000	population	(BJS)
1% 5% 10% 25%	Percentil 8. 17. 2 71.	3 1 24		. 4	Obs Sum of wgt.	1,173 1,173
50%	124.	1	Larges	s+	Mean Std. dev.	161.8202 170.51
75% 90% 95% 99%	192. 306. 402. 1083.	1 5	1266 1400 144 1635	. 4 . 6 18	Variance Skewness Kurtosis	29073.65 3.882311 24.32595
1% 5% 10% 25%	Percentil 52. 100. 122. 201.	9 6 1	Smalles 39. 43. 43.	. 6 . 4 . 8	Obs Sum of wgt.	1,173 1,173
50%	305.	1	Larges	st.	Mean Std. dev.	333.5893 188.0383
75% 90% 95% 99%	440. 55 655. 936.999	52 .9	1357 1485 1491 1613	. 4 . 4 . 2	Variance Skewness Kurtosis	35358.41 1.544157 8.448142
	72-99 ONI		agged Ratentenced pi		0,000 reside in Stat	ent pop
1% 5% 10% 25%	6	39 52 76	2	st 19 21 26	Obs Sum of wgt.	1,173 1,173
50%	18				Mean	226.5797
75% 90% 95% 99%	29 41 47 90	.0 73	Larges 165 168 178 191	50 32 32	Std. dev. Variance Skewness Kurtosis	178.8881 32000.95 3.881709 29.04173
			pb1	L064		
1% 5% 10% 25%	Percentil .379688 .710580 1.18682 2.20219	36 )4 26	Smalles .248206 .265805 .283949 .297351	56 58 93	Obs Sum of wgt.	1,173 1,173
50%	4.02621	.3	Larges	s+	Mean Std. dev.	5.336217 4.885688
75% 90% 95% 99%	6.85067 10.476 11.7318 25.135	57 86	26.6535 26.7896 26.9475 26.9795	54 59 93 57	Variance Skewness Kurtosis	23.86994 2.351575 9.704216
1% 5% 10%	Percentil 24.2018 47.101 52.7549	33 .1 98	Smalles 21.7804 21.9119 21.9996	13 94 57	Obs	1,173
25%	59.939	97	22.0676	54	Sum of wgt.	1,173

shall	

		Smallest	Percentiles	1.0
		U	O	1%
		0	0	5%
1,173	Obs	0	0	10%
1,173	Sum of wgt.	0	0	25%
1,173	Sum OI wgc.	0	· ·	25.0
.2429668	Mean		0	50%
.4290581	Std. dev.	Taxxaat	ū	000
.4290361	sta. dev.	Largest	_	
		1	0	75%
.1840908	Variance	1	1	90%
1.198639	Skewness	1	1	95%
2.436735	Kurtosis	- 1		99%
2.430/33	NULLOSIS		1	ングつ

## 1 . pwcorr

	year	vio	mur	rob	incarc~e	pb1064	pw1064
year vio mur rob incarc_rate pb1064 pw1064 pw1029 pop avginc density stateid shall othervio	1.0000 0.1214 -0.0330 -0.0142 0.5041 0.0686 -0.0335 -0.8658 0.0594 0.5252 -0.0040 -0.0000 0.3794 0.2301	1.0000 0.8265 0.9071 0.7027 0.5698 -0.5730 -0.1696 0.3190 0.4080 0.6647 -0.3170 -0.2069 0.9221	1.0000 0.7976 0.7096 0.6018 -0.6154 0.0150 0.0999 0.2206 0.7486 -0.2428 -0.1794 0.7060	1.0000 0.5668 0.5812 -0.5842 -0.0860 0.3172 0.4148 0.7818 -0.2507 -0.2125 0.6738	1.0000 0.5308 -0.5271 -0.4463 0.0953 0.4615 0.5593 -0.2171 0.0424 0.7067	1.0000 -0.9820 0.0162 0.0581 0.2627 0.5432 -0.3105 -0.1839 0.4618	1.0000 -0.0126 -0.0654 -0.1912 -0.5551 0.3112 0.2123 -0.4643
	pm1029	pop	avginc	density	stateid	shall	othervio
pm1029 pop avginc density stateid shall othervio	1.0000 -0.0975 -0.5279 -0.0637 0.0084 -0.2772 -0.2242	1.0000 0.2152 -0.0780 -0.0637 -0.1244 0.2754	1.0000 0.3433 -0.2035 -0.0000 0.3403	1.0000 -0.1640 -0.1126 0.4428	1.0000 0.1873 -0.3266	1.0000 -0.1679	1.0000

- 2 . 3 . /\* year wise violence when shall law not in place \*/ 4 . preserve
- 5 . keep if shall==0
   (285 observations deleted)
- collapse vio,by(year)
- twoway line vio year,ysc(r(100,1000))
- 8 . restore
- 9 . /\* year wise violence when shall law  $\,$  in place \*/ 10. preserve

```
keep if shall==1
  (888 observations deleted)
12.
            collapse vio, by (year)
13.
           twoway line vio year,ysc(r(100,500))
14. restore
15.
16. /* year wise murder when shall law not in place */
18. preserve
           keep if shall==0
 (285 observations deleted)
20.
            collapse mur, by (year)
21.
           twoway line mur year, ysc(r(1,20))
22. restore
23. /* year wise murder when shall law in place */
24. preserve
 5. keep if shall==1 (888 observations deleted)
26.
           collapse mur, by (year)
27.
           twoway line mur year,ysc(r(1,10))
28. restore
29. /* year wise robbery when shall law not in place */
30. preserve
           keep if shall==0
 (285 observations deleted)
32.
           collapse rob, by (year)
           twoway line rob year, ysc(r(20,300))
33.
35. /* year wise robbery when shall law in place */
36. preserve
           keep if shall==1
 (888 observations deleted)
38.
           collapse rob, by (year)
           twoway line rob year, ysc(r(20,300))
40. restore
```

41. /\* year wise other violence when shall law not in place \*/

```
42. preserve
```

- keep if shall==0 (285 observations deleted)
- 44. collapse othervio, by (year)
- 45. twoway line othervio year,ysc(r(100,800))
- 46. restore
- 47. /\* year wise other violence when shall law in place \*/
- 48. preserve
- keep if shall==1 (888 observations deleted)
- 50. collapse othervio,by(year)
- 51. twoway line othervio year,ysc(r(100,500))
- 52. restore
- 54. /\*Distribution Plots \*/
- 56. histogram vio, freq normal (bin=30, start=47, width=95.826668)
- 57. graph hbox vio
- 58. summarize vio, detail

Violent Crime Rate per 100,000 population (BJS)

		Smallest 47	Percentiles 66.9	1%
		= :		
		51.3	126.9	5%
1,173	Obs	53.6	167.5	10%
1,173	Sum of wgt.	53.7	283.1	25%
503.0747	Mean		443	50%
334.2772	Std. dev.	Largest		
		2661.4	650.9	75%
111741.2	Variance	2662.6	850	90%
2.538371	Skewness	2832.8	996.1	95%
14.87774	Kurtosis	2921.8	2010.6	99%

- 59. 60.
- 61. histogram mur, freq normal
   (bin=30, start=.2, width=2.6799999)
- 62. graph hbox mur
- 63. summarize mur, detail

Murder Crime Rate per 100,000 population (BJS)

		Smallest	Percentiles	
		. 2	1	1%
		. 6	1.8	5%
1,173	Obs	. 6	2.3	10%
1,173	Sum of wgt.	.7	3.7	25%
1,175	Sam OI wgc.	.,	3.7	250
7.665132	Mean		6.4	50%
7.52271	Std. dev.	Largest	0.1	000
7.52271	sca. dev.	75.2	9.8	75%
56.59116	Variance	77.8	12.1	90%
5.785826	Skewness	78.5	14.4	95%
48.49532	Kurtosis	80.6	46.4	99%

- 64. 65. histogram rob, freq normal (bin=30, start=6.4000001, width=54.289999)
- 66. graph hbox rob
- 67. summarize rob, detail

Robbery Crime Rate per 100,000 population (BJS)

1%	Percentiles 8.3	Smallest 6.4		
5%	17.1	6.4		
10%	24	6.9	Obs	1,173
25%	71.1	7.6	Sum of wgt.	1,173
50%	124.1		Mean	161.8202
750	100 5	Largest	Std. dev.	170.51
75%	192.7	1266.4		
90%	306.1	1400.6	Variance	29073.65
95%	402.5	1448	Skewness	3.882311
99%	1083.1	1635.1	Kurtosis	24.32595

- 68.
- 69. histogram othervio, freq normal (bin=30, start=39.599998, width=52.470002)
- 70. graph hbox othervio
- 71. summarize othervio, detail

othe	rvio

1% 5% 10% 25%	Percentiles 52.9 100.6 122.1 201.6	Smallest 39.6 43.4 43.8 44.7	Obs Sum of wgt.	1,173 1,173
256	201.6	44.7	Sum OI wgt.	1,1/3
50%	305.1	Largest	Mean Std. dev.	333.5893 188.0383
75%	440.3	1357.4		
90%	552	1485.4	Variance	35358.41
95%	655.9	1491.2	Skewness	1.544157
99%	936.9999	1613.7	Kurtosis	8.448142

- 72.
  73. histogram incarc\_rate, freq normal
   (bin=30, start=19, width=63.133333)
- 74. graph hbox incarc\_rate
- 75. summarize incarc, detail

72-99 ONLY - Lagged Rate per 100,000 resident pop of sentenced prisoners in Stat

1%	Percentiles 39	Smallest <b>19</b>		
5%	62	21		
10%	76	26	Obs	1,173
25%	114	26	Sum of wat.	1,173
2.5%	114	20	Sum OI wgt.	1,173
50%	187		Mean	226.5797
		Largest	Std. dev.	178.8881
75%	201	_	sta. dev.	170.0001
	291	1650		
90%	410	1682	Variance	32000.95
95%	473	1782	Skewness	3.881709
99%	905	1913	Kurtosis	29.04173
ンシつ	905	1913	NULCUSIS	29.041/3

- 76. 77. histogram pb1064, freq normal (bin=30, start=.24820656, width=.89104546)
- 78. graph hbox pb1064
- 79. summarize pb1064,detail

pb1064

1% 5% 10% 25%	Percentiles .3796886 .7105804 1.186826 2.202196	Smallest .2482066 .2658058 .2839493 .2973519	Obs Sum of wgt.	1,173 1,173
50%	4.026213		Mean	5.336217
300	4.020213	Largest	Std. dev.	4.885688
75%	6.850673	26.65354		
90%	10.4767	26.78969	Variance	23.86994
95%	11.73186	26.94793	Skewness	2.351575
99%	25.1352	26.97957	Kurtosis	9.704216

- 80.
- 81. histogram pw1064, freq normal (bin=30, start=21.78043, width=1.824844)
- 82. graph hbox pw1064
- 83. summarize pw1064,detail

pw1064

		=		
1% 5%	Percentiles 24.20183 47.1011	Smallest 21.78043 21.91194		
10%	52.75498	21.99967	Obs	1,173
25%	59.9397	22.06764	Sum of wgt.	1,173
50%	65.06128		Mean	62.94543
		Largest	Std. dev.	9.761527
75%	69.2001	75.23706		
90%	71.27304	75.65321	Variance	95.28741
95%	73.03449	76.06671	Skewness	-2.223298
99%	74.63558	76.52575	Kurtosis	9.068317

- 84. 85. histogram pm1029, freq normal (bin=30, start=12.21368, width=.33796686)
- 86. graph hbox pm1029
- 87. summarize pm1029, detail

pm1029

1% 5% 10% 25%	Percentiles 12.73195 13.55572 14.02926 14.65337	Smallest 12.21368 12.41844 12.50534 12.50831	Obs Sum of wgt.	1,173 1,173
50%	15.89517	Largest	Mean Std. dev.	16.08113 1.732143
75%	17.52571	21.55065	554. 451.	_,,,
90%	18.34835	21.97401	Variance	3.000321
95%	18.74896	22.05606	Skewness	.2675794
99%	20.01816	22.35269	Kurtosis	2.434813

- 88. 89. histogram pop, freq normal (bin=30, start=.402753, width=1.0914123)
- 90. graph hbox pop
- 91. summarize pop, detail

		pop		
	Percentiles	Smallest		
1%	. 458377	. 402753		
5%	.569273	. 403437		
10%	. 655273	.404764	Obs	1,173
25%	1.187706	. 405315	Sum of wgt.	1,173
50%	3.271332		Mean	4.816341
		Largest	Std. dev.	5.252115
75%	5.685611	31.78083		
90%	11.4347	32.21771	Variance	27.58471
95%	16.6218	32.68279	Skewness	2.430632
99%	28.46425	33.14512	Kurtosis	10.32564

- 92.
- 93. histogram avginc, freq normal (bin=30, start=8.554884, width=.50306098)
- 94. graph hbox avginc
- 95. summarize avginc, detail

## avginc

		=		
1% 5% 10% 25%	Percentiles 9.321481 10.08594 10.66621 11.93476	Smallest 8.554884 8.566631 8.615 8.645796	Obs Sum of wgt.	1,173 1,173
50%	13.40155	Largest	Mean Std. dev.	13.7248 2.554543
75%	15.27101	22.89234	bea. acv.	2.334343
90%	17.12022	23.13307	Variance	6.525687
95%	18.3592	23.39974	Skewness	.7342556
99%	21.29597	23.64671	Kurtosis	3.641812

- 96. 97. histogram density, freq normal (bin=30, start=.00070708, width=.37004695)
- 98. graph hbox density
- 99. summarize density, detail

## density

1% 5% 10% 25%	Percentiles .0009535 .005599 .0096274 .0319112	Smallest .0007071 .0007083 .00071	Obs Sum of wgt.	1,173 1,173
50%	.081569		Mean	.3520382
		Largest	Std. dev.	1.355472
75%	.177718	10.13149		
90%	.5210142	10.65598	Variance	1.837304
95%	.9380123	10.90248	Skewness	6.694125
99%	10.00683	11.10212	Kurtosis	47.29512

```
100
101 /* scatter plot w.r.t explanatory variables with shall law */
102
103 twoway scatter vio incarc rate, mlabel(shall)
104 twoway scatter mur incarc rate, mlabel(shall)
105 twoway scatter rob incarc rate,mlabel(shall)
106 twoway scatter othervio incarc_rate,mlabel(shall)
107
108
109 twoway scatter vio pb1064, mlabel(shall)
110 twoway scatter mur pb1064, mlabel(shall)
111 twoway scatter rob pb1064, mlabel(shall)
112 twoway scatter othervio pb1064, mlabel(shall)
114 twoway scatter vio pw1064, mlabel(shall)
115 twoway scatter mur pw1064, mlabel(shall)
116 twoway scatter rob pw1064, mlabel(shall)
117 twoway scatter othervio pw1064, mlabel(shall)
118
119 twoway scatter vio pm1029, mlabel(shall)
120 twoway scatter mur pm1029, mlabel(shall)
121 twoway scatter rob pm1029, mlabel(shall)
122 twoway scatter othervio pm1029, mlabel(shall)
123
125 twoway scatter vio pop, mlabel(shall)
126 twoway scatter mur pop, mlabel (shall)
127 twoway scatter rob pop, mlabel (shall)
128 twoway scatter othervio pop, mlabel (shall)
129
130 twoway scatter vio avginc, mlabel(shall)
131 twoway scatter mur avginc, mlabel(shall)
132 twoway scatter rob avginc, mlabel(shall)
133 twoway scatter othervio avginc, mlabel(shall)
134
135 twoway scatter vio density, mlabel(shall)
```

```
136 twoway scatter mur density, mlabel(shall)
137 twoway scatter rob density, mlabel(shall)
138 twoway scatter othervio density, mlabel(shall)
140 /* scatter plot with different crime rates w.r.t year with shall and with out shall law */
141 preserve
            keep if shall == 0
  (285 observations deleted)
143
            graph twoway scatter vio year | | scatter vio year
144
            graph twoway scatter mur year||scatter mur year
145
            graph twoway scatter rob year||scatter rob year
146
            graph twoway scatter othervio year||scatter othervio year
147 restore
148
149 preserve
            keep if shall == 1
  (888 observations deleted)
151
            graph twoway scatter vio year | | scatter vio year
152
            graph twoway scatter mur year||scatter mur year
153
            graph twoway scatter rob year | | scatter rob year
154
            graph twoway scatter othervio year | | scatter othervio year
155 restore
157 /* Violence rate when shall law not in place across states */
158 preserve
           keep if shall==0
  (285 observations deleted)
160
            collapse vio, by (stateid)
161
            twoway line vio stateid
162 restore
163 /* Violence rate when shall law in place across states */
165 preserve
166
           keep if shall==1
  (888 observations deleted)
167
            collapse vio, by (stateid)
```

```
168
    twoway line vio stateid
169 restore
170 /* Murder rate when shall law not in place across states */
172 preserve
          keep if shall==0
 (285 observations deleted)
           collapse mur, by (stateid)
           twoway line mur stateid
176 restore
177 \/^* Murder rate when shall law in place across states \/^*
179 preserve
          keep if shall==1
  (888 observations deleted)
181
           collapse mur, by (stateid)
182
           twoway line mur stateid
183 restore
184 /* Robbery rate when shall law not in place across states */
185
186 preserve
          keep if shall==0
 (285 observations deleted)
           collapse rob, by (stateid)
188
189
          twoway line rob stateid
190 restore
192 /* Robbery rate when shall law in place across states */
193
194 preserve
          keep if shall==1
 (888 observations deleted)
196
           collapse rob, by (stateid)
197
           twoway line rob stateid
198 restore
200 /* Other Violence rate when shall law not in place across states */
201
```

```
202 preserve
203
           keep if shall==0
  (285 observations deleted)
204
            collapse othervio, by (stateid)
205
            twoway line othervio stateid
206 restore
207 /* Other Violence rate when shall law in place across states */
209
210 preserve
           keep if shall==1
  (888 observations deleted)
212
            collapse othervio, by (stateid)
213
            twoway line othervio stateid
214 restore
215
216
217 /*hardcoding unique values as i tried with list and memory list cant get clue */
219 gen stateid7780 = stateid if(shall==1 & (year>=77 & year<=80))
 (1,157 missing values generated)
220 replace stateid7780=0 if(stateid7780==.)
  (1,157 real changes made)
221 replace stateid7780 =stateid if (stateid == 18|stateid==33|stateid==50|stateid==53)
 (76 real changes made)
223 gen stateid8085 = stateid if(shall==1 & (year>=81 & year<=85) & stateid!=stateid7780)
  (1,169 missing values generated)
224 replace stateid8085=0 if(stateid8085==.)
 (1,169 real changes made)
225 replace stateid8085 = stateid if (stateid == 23)
  (19 real changes made)
226
227 gen stateid8590 = stateid if(shall==1 & (year>=86 & year<=90)&stateid!=stateid7780 & stateid!=stat
 (1,153 missing values generated)
228 replace stateid8085=0 if(stateid8085==.)
  (0 real changes made)
229 replace stateid8085 =stateid if (stateid == 12|stateid==13|stateid==38|stateid==42|stateid==46|sta
  (161 real changes made)
230
231
```

```
232 gen stateid9095 = stateid if(shall==1 & (year>=91 & year<=95)&stateid!=stateid7780 & stateid!=stat
     (1,146 missing values generated)
233 replace stateid9095=0 if(stateid9095==.)
     (1,146 real changes made)
234 replace stateid9095 =stateid if (stateid == 2|stateid==4|stateid==16|stateid==22|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|stateid==28|state
     (180 real changes made)
235
236
237 gen stateid9599 = stateid if(shall==1 & (year>=96 & year<=99)&stateid!=stateid7780 & stateid!=stat
    (1,144 missing values generated)
238 replace stateid9599=0 if(stateid9599==.)
     (1,144 real changes made)
239 replace stateid9599 =stateid if (stateid == 5|stateid==21|stateid==32|stateid==37|stateid==40|stat
    (155 real changes made)
240
241
242 /*Year 77-80 violence rate when states implemented shall law across years */
244 preserve
                             keep if (stateid7780!=0)
     (1,081 observations deleted)
246
                             collapse vio, by (year)
247
                             twoway line vio year,ysc(r(200,600))
248 restore
249 /*Year 80-85 violence rate when states implemented shall law across years */
250
251 preserve
                             keep if (stateid8085!=0)
    (989 observations deleted)
253
                             collapse vio, by (year)
254
                             twoway line vio year, ysc(r(200,600))
255 restore
257 /*Year 85-90 violence rate when states implemented shall law across years */
258
259
260 preserve
                             keep if (stateid8590!=0)
    (0 observations deleted)
262
                             collapse vio, by (year)
263
                             twoway line vio year, ysc(r(200,600))
```

```
264 restore
265
266 /*Year 90-95 violence rate when states implemented shall law across years */
267
268
269 preserve
           keep if (stateid9095!=0)
 (966 observations deleted)
           collapse vio, by (year)
            twoway line vio year, ysc(r(200,600))
273 restore
275 /*Year 95-99 violence rate when states implemented shall law across years */
276 preserve
           keep if (stateid9599!=0)
 (989 observations deleted)
278
            collapse vio, by (year)
279
            twoway line vio year,ysc(r(200,600))
280 restore
281
282 /*Year 77-80 Murder rate when states implemented shall law across years */
284 preserve
           keep if (stateid7780!=0)
 (1,081 observations deleted)
286
            collapse mur, by (year)
287
            twoway line mur year, ysc(r(1,10))
288 restore
289 /*Year 80-85 Murder rate when states implemented shall law across years */
291 preserve
           keep if (stateid8085!=0)
 (989 observations deleted)
293
           collapse mur, by (year)
294
            twoway line mur year, ysc(r(1,10))
295 restore
296 /*Year 85-90 Murder rate when states implemented shall law across years */
297
298 preserve
```

```
299
           keep if (stateid8590!=0)
  (0 observations deleted)
300
           collapse mur, by (year)
301
           twoway line mur year, ysc(r(1,10))
302 restore
303
304 /*Year 90-95 Murder rate when states implemented shall law across years */
306
307 preserve
308
           keep if (stateid9095!=0)
 (966 observations deleted)
           collapse mur, by (year)
310
           twoway line mur year, ysc(r(1,10))
311 restore
313 /*Year 95-99 Murder rate when states implemented shall law across years */
314
315
316 preserve
           keep if (stateid9599!=0)
 (989 observations deleted)
318
           collapse mur, by (year)
319
            twoway line mur year, ysc(r(1,10))
320 restore
321
322 /*Year 77-80 Robbery rate when states implemented shall law across years */
323
324
325 preserve
           keep if (stateid7780!=0)
 (1,081 observations deleted)
327
           collapse rob, by (year)
           twoway line rob year, ysc(r(1,10))
329 restore
331 /*Year 80-85 Robbery rate when states implemented shall law across years */
332
333
334 preserve
```

```
335
           keep if (stateid8085!=0)
  (989 observations deleted)
336
           collapse rob, by (year)
337
           twoway line rob year, ysc(r(1,10))
338 restore
339
340 /*Year 85-90 Robbery rate when states implemented shall law across years */
342
343 preserve
           keep if (stateid8590!=0)
 (0 observations deleted)
           collapse rob, by (year)
           twoway line rob year, ysc(r(1,10))
347 restore
349 /*Year 90-95 Robbery rate when states implemented shall law across years */
350
351
352 preserve
           keep if (stateid9095!=0)
 (966 observations deleted)
354
           collapse rob, by (year)
355
            twoway line rob year, ysc(r(1,10))
356 restore
357
358 /*Year 95-99 Robbery rate when states implemented shall law across years */
359
360
361 preserve
           keep if (stateid9599!=0)
 (989 observations deleted)
363
           collapse rob, by (year)
           twoway line rob year, ysc(r(1,10))
365 restore
367 /*Year 77-80 Other Violence rate when states implemented shall law across years */
368
369
370 preserve
```

```
371
            keep if (stateid7780!=0)
  (1,081 observations deleted)
372
            collapse othervio, by (year)
373
            twoway line othervio year, ysc(r(1,10))
374 restore
375
376 /*Year 80-85 Other Violence rate when states implemented shall law across years */
378
379 preserve
           keep if (stateid8085!=0)
 (989 observations deleted)
           collapse othervio, by (year)
           twoway line othervio year, ysc(r(1,10))
383 restore
385 /*Year 85-90 Other Violence rate when states implemented shall law across years */
386
387
388 preserve
           keep if (stateid8590!=0)
  (0 observations deleted)
390
            collapse othervio, by (year)
391
            twoway line othervio year, ysc(r(1,10))
392 restore
393
394 /*Year 90-95 Other Violence rate when states implemented shall law across years */
395
396
397 preserve
           keep if (stateid9095!=0)
 (966 observations deleted)
399
           collapse othervio, by (year)
           twoway line othervio year, ysc(r(1,10))
401 restore
403 /*Year 95-99 Other Violence rate when states implemented shall law across years */
404
405
406 preserve
```

```
407
             keep if (stateid9599!=0)
  (989 observations deleted)
408
             collapse othervio,by(year)
409
             twoway line othervio year, ysc(r(1,10))
410 restore
411
412
413
414 xtset stateid year
  Panel variable: stateid (strongly balanced)
   Time variable: year, 77 to 99
Delta: 1 unit
415 xtline vio
416 xtline mur
417 xtline rob
418 xtline othervio
419
420
421 g logvio=log(vio)
422 histogram logvio, freq normal (bin=30, start=3.8501475, width=.13766026)
423 graph hbox logvio
424 summarize logvio, detail
```

## logvio

	Percentiles	Smallest		
1%	4.203199	3.850147		
5%	4.8434	3.937691		
10%	5.120983	3.981549	Obs	1,173
25%	5.6458	3.983413	Sum of wgt.	1,173
50%	6.09357		Mean	6.027293
		Largest	Std. dev.	.6456943
75%	6.478356	7.886608		
90%	6.745236	7.887058	Variance	.4169211
95%	6.903848	7.949021	Skewness	4267379
99%	7.606188	7.979955	Kurtosis	3.487111

425

426 g logmur=log(mur)

427 histogram logmur, freq normal (bin=30, start=-1.6094379, width=.19996456)

428 graph hbox logmur

# 429 summarize logmur, detail

## logmur

1%	Percentiles 0 .5877866	Smallest -1.609438 5108256		
10%	.8329091	5108256	Obs	1,173
25%	1.308333	356675	Sum of wgt.	1,173
50%	1.856298		Mean	1.782542
		Largest	Std. dev.	.703418
75%	2.282382	4.320151	sea. acv.	.,03120
90%	2.493206	4.354141	Variance	.4947969
95%	2.667228	4.363099	Skewness	1359629
99%	3.8373	4.389499	Kurtosis	4.183134

430

431 g logrob=log(rob)

432 histogram logrob, freq normal (bin=30, start=1.856298, width=.18477205)

433 graph hbox logrob

434 summarize logrob, detail

## logrob

1%	Percentiles 2.116256	Smallest 1.856298		
5%	2.839078	1.856298		
10%	3.178054	1.931521	Obs	1,173
25%	4.264087	2.028148	Sum of wgt.	1,173
50%	4.821088		Mean	4.68516
		Largest	Std. dev.	.9546157
75%	5.261135	7.143933	204. 401.	
90%	5.723912	7.244656	Variance	.9112911
95%	5.997695	7.277938	Skewness	5202923
99%	6.987583	7.399459	Kurtosis	3.380082
200	0.507505		1141 00010	3.300002

435

436 g logothervio=log(othervio)

437 histogram logothervio, freq normal (bin=30, start=3.6788292, width=.12358185)

438 graph hbox logothervio

439 summarize logothervio,detail

## logothervio

1%	Percentiles 3.968403	Smallest <b>3.678829</b>		
5%	4.611152	3.770459		
10%	4.804841	3.779634	Obs	1,173
25%	5.306285	3.799973	Sum of wgt.	1,173
50%	5.72064		Mean	5.650882
		Largest	Std. dev.	.589422
75%	6.087456	7.213326		
90%	6.313548	7.30344	Variance	.3474183
95%	6.486008	7.307336	Skewness	4666877
99%	6.842683	7.386285	Kurtosis	3.169728

441 g logincarc\_rate=log(incarc\_rate)

442 histogram logincarc\_rate, freq normal (bin=30, start=2.9444389, width=.15373297)

443 graph hbox logincarc\_rate

444 summarize logincarc\_rate,detail

## logincarc\_rate

		<del>-</del>		
1% 5%	Percentiles 3.663562 4.127134	Smallest 2.944439 3.044523		
10%	4.330733	3.258096	Obs	1,173
25%	4.736198	3.258096	Sum of wgt.	1,173
50%	5.231109		Mean	5.202726
		Largest	Std. dev.	.6622038
75%	5.673323	7.408531		
90%	6.016157	7.427739	Variance	.4385138
95%	6.159095	7.485492	Skewness	030965
99%	6.807935	7.556428	Kurtosis	3.197107
220	0.007933	7.330420	Nul Cosis	3.19/10/

445

446 g logdensity=log(density)

447 histogram logdensity, freq normal (bin=30, start=-7.2543664, width=.32205007)

448 graph hbox logdensity

449 summarize logdensity, detail

## logdensity

1%	Percentiles	Smallest -7.254366		
5 %	-5.185166	-7.252669		
10%	-4.643144	-7.250187	Obs	1,173
25%	-3.444798	-7.249385	Sum of wgt.	1,173
50%	-2.506306		Mean	-2.546755
		Largest	Std. dev.	1.571322
75%	-1.727557	2.315649		
90%	651978	2.366122	Variance	2.469052
95%	0639922	2.38899	Skewness	.0463115
99%	2.303267	2.407136	Kurtosis	4.180406

450 451 452

453 reg logvio logincarc\_rate pb1064 pw1064 pm1029 pop avginc logdensity shall

	Source	SS	df	MS	Number of obs	=	1,173
_	Model	328.008468	8	41.0010585	F(8, 1164) Prob > F	=	297.13 0.0000
	Residual	160.623091	1,164	.137992346	R-squared	=	0.6713 0.6690
_	Total	488.631558	1,172	.416921125	Adj R-squared Root MSE	=	.37147

logvio	Coefficient	Std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pb1064 pw1064 pm1029 pop avginc logdensity shall cons	.6935672 .0033125 .0033576 .1167641 .0240749 .0232989 .0928883 2826839 .1816538	.0252298 .014386 .0070293 .0102156 .0023009 .0063738 .0089614 .0283135 .4902108	27.49 0.23 0.48 11.43 10.46 3.66 10.37 -9.98 0.37	0.000 0.818 0.633 0.000 0.000 0.000 0.000 0.000	.6440662 0249129 0104339 .096721 .0195605 .0107936 .0753059 338235 7801417	.7430682 .031538 .0171491 .1368071 .0285892 .0358042 .1104707 2271328 1.143449

454 estimates store ols

456 test pb1064 pw1064

(1) pb1064 = 0 (2) pw1064 = 0

F(2, 1164) =0.69 Prob > F = 0.5037

457

458 predict ehat, xb

460 predict s1, residual

462 graph twoway scatter s1 ehat, yline(0)

464 estat imtest, white

White's test

HO: Homoskedasticity
Ha: Unrestricted heteroskedasticity

chi2(**43**) = **293.46** Prob > chi2 = **0.0000** 

Cameron & Trivedi's decomposition of IM-test

р	df	chi2	Source
0.0000 0.0000 0.7754	43 8 1	293.46 35.45 0.08	Heteroskedasticity Skewness Kurtosis
0.0000	52	328.99	Total

465 466 reg logvio logincarc\_rate pm1029 pop avginc shall logdensity

	Source	SS	df	MS	Number of obs	=	1,173
_					F(6, 1166)	=	396.15
	Model	327.819114	6	54.6365191	Prob > F	=	0.0000
	Residual	160.812444	1,166	.137918048	R-squared	=	0.6709
					Adj R-squared	=	0.6692
	Total	488.631558	1,172	.416921125	Root MSE	=	.37137

logvio	Coefficient	Std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pm1029 pop avginc shall logdensity _cons	.6781481	.0202026	33.57	0.000	.6385106	.7177857
	.1134168	.0086277	13.15	0.000	.0964893	.1303443
	.0245819	.0022304	11.02	0.000	.020206	.0289579
	.0239844	.0053965	4.44	0.000	.0133965	.0345722
	2780539	.0274432	-10.13	0.000	3318975	2242102
	.0880118	.0079309	11.10	0.000	.0724513	.1035723
	.5193309	.2328941	2.23	0.026	.0623926	.9762693

467

468 predict ehat1,xb

469

470 predict s2, residual

472 graph twoway scatter s2 ehat1, yline(0)

474 estat imtest, white

White's test

HO: Homoskedasticity

Ha: Unrestricted heteroskedasticity

chi2(26) = 156.18Prob > chi2 = 0.0000

Cameron & Trivedi's decomposition of IM-test

df p	df	chi2	Source
26 0.0000 6 0.0000 1 0.8585	26 6 1	156.18 29.77 0.03	Heteroskedasticity Skewness Kurtosis
33 0.0000	33	185.99	Total

475

476

477 reg logvio logincarc\_rate pb1064 pw1064 pm1029 pop avginc shall logdensity, vce(robust)

Linear regression

Number of obs 1,173 F(8, 1164) = 299.91 Prob > F = 0.0000 R-squared Root MSE = 0.6713 .37147

logvio	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pb1064 pw1064 pm1029 pop avginc shall logdensity _cons	.6935672	.0246505	28.14	0.000	.6452028	.7419316
	.0033125	.016037	0.21	0.836	0281521	.0347771
	.0033576	.0080255	0.42	0.676	0123884	.0191036
	.1167641	.0098848	11.81	0.000	.09737	.1361582
	.0240749	.0024971	9.64	0.000	.0191755	.0289742
	.0232989	.0061111	3.81	0.000	.0113088	.0352889
	2826839	.029917	-9.45	0.000	3413811	2239867
	.0928883	.0093021	9.99	0.000	.0746375	.1111391
	.1816538	.5714627	0.32	0.751	9395583	1.302866

478 estimates store fixedclusterrobust

479

480 predict ehat3,xb

481

482 predict s3, residual

483

484 graph twoway scatter s3 ehat3, yline(0)

485

486 estat imtest, white

White's test

HO: Homoskedasticity

Ha: Unrestricted heteroskedasticity

chi2(43) = 293.46Prob > chi2 = 0.0000

Cameron & Trivedi's decomposition of IM-test

р	df	chi2	Source
0.0000 0.0000 0.7754	43 8 1	293.46 35.45 0.08	Heteroskedasticity Skewness Kurtosis
0.0000	52	328.99	Total

487

488 reg logvio logincarc\_rate pm1029 pop avginc shall logdensity,vce(robust)

Linear regression

Number of obs	=	1,173
F(6, 1166)	=	389.89
Prob > F	=	0.0000
R-squared	=	0.6709
Root MSE	=	.37137

logvio	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pm1029 pop avginc shall logdensity _cons	.6781481	.0191451	35.42	0.000	.6405855	.7157108
	.1134168	.0080454	14.10	0.000	.0976317	.1292019
	.0245819	.0024664	9.97	0.000	.0197428	.0294211
	.0239844	.0050571	4.74	0.000	.0140623	.0339064
	2780539	.0282393	-9.85	0.000	3334594	2226483
	.0880118	.0075957	11.59	0.000	.073109	.1029146
	.5193309	.2162536	2.40	0.016	.0950413	.9436206

489

490 predict ehat4,xb

491

492 predict s4, residual

493

```
494 graph twoway scatter s4 ehat4, yline(0)
495
496
497 xtreg logvio logincarc rate pb1064 pw1064 pm1029 pop avginc shall logdensity, fe
 Fixed-effects (within) regression
                                                  Number of obs
 Group variable: stateid
                                                  Number of groups =
 R-squared:
                                                  Obs per group:
      Within = 0.2236
                                                                 min =
                                                                               23
      Between = 0.1068
                                                                 avg =
                                                                             23.0
      Overall = 0.0757
                                                                 max =
                                                  F(8,1114)
                                                                     =
                                                                            40.11
 corr(u i, Xb) = -0.6657
                                                  Prob > F
                                                                           0.0000
                   Coefficient Std. err.
                                                              [95% conf. interval]
         logvio
                                               t P>|t|
 logincarc rate
                               .0282092
                    -.0672299
                                            -2.38
                                                    0.017
                                                              -.122579
                                                                          -.0118808
                               .0150322
          pb1064
                     .0952893
                                            6.34
                                                    0.000
                                                              .0657947
                                                                          .1247839
                     .0428067
                                                              .0325894
          pw1064
                                .0052073
                                             8.22
                                                    0.000
                                                                           .053024
                                                              -.0853809
                                                                           -.052754
                                .0083143
                                            -8.31
          pm1029
                    -.0690675
                                                    0.000
                      .024386
                                .0092824
                                             2.63
                                                    0.009
                                                              .0061732
                                                                           .0425989
            pop
          avginc
                    -.0041476
                                .0057273
                                            -0.72
                                                              -.0153851
                                                    0.469
                                                                           .0070899
           shall
                    -.0379066
                                .0189886
                                            -2.00
                                                    0.046
                                                               -.075164
                                                                          -.0006491
      logdensity
                     -.251832
                                .0859535
                                            -2.93
                                                    0.003
                                                               -.420481
                                                                          -.0831831
                     3.592115
           _cons
                                .4393088
                                                    0.000
                                                              2.730149
                                             8.18
                                                                          4.454081
                    .81282483
         sigma_u
         sigma e
                    .16012284
                    .96264251
                               (fraction of variance due to u i)
            rho
 F test that all u i=0: F(50, 1114) = 103.01
                                                                Prob > F = 0.0000
498
499 xtreg logvio logincarc rate pb1064 pw1064 pm1029 pop avginc shall logdensity, fe vce(cluster state
  Fixed-effects (within) regression
                                                  Number of obs
                                                                            1,173
                                                  Number of groups =
 Group variable: stateid
                                                                               51
 R-squared:
                                                  Obs per group:
      Within = 0.2236
                                                                               23
                                                                 min =
      Between = 0.1068
                                                                 avg =
                                                                             23.0
                                                                 max =
      Overall = 0.0757
                                                                               23
                                                  F(8,50)
                                                                             5.89
 corr(u i, Xb) = -0.6657
                                                  Prob > F
                                                                           0.0000
                                   (Std. err. adjusted for 51 clusters in stateid)
                                 Robust
          logvio
                   Coefficient std. err.
                                              t
                                                    P>|t|
                                                              [95% conf. interval]
                               .0690289
                    -.0672299
                                            -0.97
                                                    0.335
                                                              -.2058784
 logincarc rate
                                                                           .0714187
                                                              .0318696
          pb1064
                     .0952893
                                .0315747
                                             3.02
                                                    0.004
                                                                           .1587089
                                .0145712
                                                                           .0720739
          pw1064
                     .0428067
                                             2.94
                                                    0.005
                                                              .0135395
                    -.0690675
          pm1029
                                .0257976
                                            -2.68
                                                    0.010
                                                              -.1208835
                                                                          -.0172514
                                                              .0004024
                      .024386
                                .0119407
                                             2.04
                                                    0.046
                                                                           .0483697
            pop
          avginc
                    -.0041476
                                .0131294
                                            -0.32
                                                    0.753
                                                              -.0305188
                                                                           .0222236
                                            -0.88
           shall
                    -.0379066
                                .0430022
                                                    0.382
                                                               -.124279
                                                                           .0484659
     logdensity
                                                                           .0849207
                     -.251832
                                .1676589
                                                              -.5885848
                                            -1.50
                                                    0.139
          _cons
                     3.592115
                                .7697758
                                             4.67
                                                    0.000
                                                              2.045974
                                                                           5.138255
                    .81282483
         sigma u
        sigma e
                    .16012284
             rho
                    .96264251
                               (fraction of variance due to u i)
```

```
500
501 predict ehat5,xb
503 predict s5, residual
505 graph twoway scatter s5 ehat5, yline(0)
506
507 xttest3
 Modified Wald test for groupwise heteroskedasticity
 in fixed effect regression model
 H0: sigma(i)^2 = sigma^2 for all i
  chi2 (51) =
                  1503.84
 Prob>chi2 =
                  0.0000
508
509
510 test avginc
   (1) avginc = 0
         F(1, 50) =
                             0.10
              Prob > F =
                             0.7534
511
512 xtreg logvio logincarc_rate pb1064 pw1064 pm1029 pop shall logdensity, fe vce (cluster stateid)
  Fixed-effects (within) regression
                                                    Number of obs
                                                                              1,173
                                                    Number of groups =
 Group variable: stateid
                                                                                 51
 R-squared:
                                                    Obs per group:
                                                                                 23
       Within = 0.2233
                                                                  min =
       Between = 0.1087
                                                                  ava =
                                                                               23.0
       Overall = 0.0771
                                                                  max =
                                                                                 23
                                                    F(7,50)
                                                                               7.06
  corr(u i, Xb) = -0.6658
                                                    Prob > F
                                                                             0.0000
                                    (Std. err. adjusted for 51 clusters in stateid)
                                  Robust
          logvio
                   Coefficient std. err.
                                                 t
                                                      P>|t|
                                                                [95% conf. interval]
                    -.0726068
                                 .0664483
                                             -1.09
                                                               -.2060721
  logincarc rate
                                                      0.280
                                                                             .0608584
          p<del>b</del>1064
                      .0940313
                                 .0306698
                                              3.07
                                                      0.003
                                                                .0324293
                                                                             .1556333
                                 .0145957
                      .0425889
                                              2.92
                                                                .0132725
                                                                             .0719052
          pw1064
                                                      0.005
          pm1029
                    -.0672519
                                 .0244447
                                             -2.75
                                                      0.008
                                                               -.1163505
                                                                            -.0181534
                     .0241646
                                  .011653
                                              2.07
                                                                .0007589
                                                                             .0475703
                                                      0.043
             pop
           shall
                    -.0380101
                                 .0429559
                                             -0.88
                                                      0.380
                                                               -.1242896
                                                                             .0482694
      logdensity
                     -.2503523
                                 .1668377
                                             -1.50
                                                      0.140
                                                                -.5854557
                                                                             .0847511
                     3.559252
                                 .7664323
                                              4.64
                                                      0.000
                                                               2.019827
                                                                             5.098677
           _cons
                    .81222128
         sigma u
         sigma e
                     .16008869
             r\overline{h}o
                     .96260441
                                 (fraction of variance due to u i)
```

513

```
514 predict ehat6,xb
516 predict s6, residual
518 graph twoway scatter s6 ehat6, yline(0)
519
520
521 xtreg logvio logincarc rate pb1064 pw1064 pm1029 pop avginc shall logdensity i.year, fe
 Fixed-effects (within) regression
                                                  Number of obs
                                                                            1,173
                                                  Number of groups =
 Group variable: stateid
                                                                               51
 R-squared:
                                                  Obs per group:
      Within = 0.4256
                                                                min =
                                                                               23
      Between = 0.2521
                                                                avg =
                                                                             23.0
      Overall = 0.1791
                                                                max =
                                                                               23
                                                  F(30,1092)
                                                                           26.97
 corr(u i, Xb) = -0.7920
                                                  Prob > F
                                                                          0.0000
          logvio
                  Coefficient Std. err.
                                                   P>|t|
                                                             [95% conf. interval]
  logincarc rate
                   -.1042005
                               .0281708
                                           -3.70
                                                    0.000
                                                             -.1594756
                                                                          -.0489254
         p<del>b</del>1064
                    -.0116159
                               .0196878
                                            -0.59
                                                    0.555
                                                              -.050246
                                                                          .0270142
                               .0076177
                                                             -.0162221
                   -.0012751
                                            -0.17
                                                    0.867
          pw1064
                                                                          .0136719
                     .0790354
                                .0154122
                                             5.13
                                                    0.000
                                                              .0487945
                                                                           .1092763
          pm1029
                     .0060215
                                .0083075
                                                             -.0102788
                                                                          .0223219
                                            0.72
                                                    0.469
            pop
                                                                           .014197
          avginc
                    .0018515
                               .0062919
                                            0.29
                                                    0.769
                                                              -.010494
                                .0172992
                                            -1.62
-3.30
                                                             -.0619729
                    -.0280295
                                                    0.105
                                                                            .005914
           shall
                                                             -.4047213
      logdensity
                    -.2539255
                                                                        -.1031297
                               .0768528
                                                    0.001
            year
             78
                     .0676702
                               .0280068
                                             2.42
                                                    0.016
                                                               .012717
                                                                           .1226233
                                                              .1302517
                                                                          .2428117
             79
                     .1865317
                                 .028683
                                            6.50
                                                    0.000
                                                              .1912323
             80
                     .2485785
                               .0292264
                                            8.51
                                                    0.000
                                                                          .3059247
                                                              .1970997
             81
                     .2569276
                               .0304912
                                             8.43
                                                    0.000
                                                                           .3167555
                     .2505044
                                                              .1861746
                                                                          .3148342
             82
                                .0327855
                                             7.64
                                                    0.000
                    .2292094
                               .0358749
                                                              .1588179
             83
                                             6.39
                                                    0.000
                                                                           .299601
                     .2715517
                                .0397885
                                                              .1934812
             84
                                             6.82
                                                    0.000
                                                                           .3496222
             85
                     .3302087
                                .0435107
                                             7.59
                                                    0.000
                                                              .2448346
                                                                           .4155828
             86
                    .4184033
                               .0478227
                                             8.75
                                                    0.000
                                                              .3245685
                                                                          .5122381
                                                              .3250717
                                                                           .5297972
                     .4274345
             87
                                 .052169
                                             8.19
                                                    0.000
             88
                     .4992313
                                .0569334
                                             8.77
                                                    0.000
                                                              .3875201
                                                                           .6109425
             89
                     .5644762
                                             9.20
                                                              .4440344
                                .0613829
                                                    0.000
                                                                           . 684918
             90
                    .7010562
                                .0743982
                                             9.42
                                                    0.000
                                                              .5550765
                                                                           .8470359
                                                              .6123781
             91
                     .7656106
                               .0780946
                                             9.80
                                                    0.000
                                                                           .9188431
             92
                     .8085042
                                 .082475
                                             9.80
                                                    0.000
                                                              .6466768
                                                                           . 9703315
             93
                     .8406783
                                .0856934
                                             9.81
                                                    0.000
                                                              . 6725359
                                                                          1.008821
             94
                     .8368897
                                .0895086
                                                    0.000
                                                              .6612615
                                             9.35
                                                                          1.012518
                                                              .6596817
             9.5
                     .8428252
                                .0933387
                                             9.03
                                                    0.000
                                                                          1.025969
             96
                    .7985925
                                .0970704
                                             8.23
                                                    0.000
                                                              .6081268
                                                                          .9890581
             97
                                                    0.000
                      .787869
                                .1006015
                                             7.83
                                                              .5904749
                                                                           . 985263
             98
                     .7426846
                                .1046289
                                             7.10
                                                    0.000
                                                              .5373882
                                                                            .947981
                      .693198
             99
                                .1081344
                                                    0.000
                                             6.41
                                                              .4810233
                                                                           .9053728
                     4.243414
                               .4896784
                                             8.67
                                                    0.000
                                                              3.282597
                                                                          5.204231
           cons
         sigma u
                    .94152993
                    .13910999
         sigma e
                    .97863663
                               (fraction of variance due to u i)
            rho
                                                               Prob > F = 0.0000
```

522 523 xtreg logvio logincarc\_rate pb1064 pw1064 pm1029 pop avginc shall logdensity i.year, fe vce(cluste

Fixed-effects (within) regression Group variable: <b>stateid</b>	Number of obs Number of groups		1,173 51
R-squared:     Within = 0.4256     Between = 0.2521     Overall = 0.1791	Obs per group: min avg max	=	23 23.0 23
corr(u_i, Xb) = -0.7920	F(30,50) Prob > F	=	50.65 0.0000

(Std. err. adjusted for **51** clusters in **stateid**)

					<u></u>	
logvio	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pb1064 pw1064 pm1029 pop avginc shall logdensity	1042005 0116159 0012751 .0790354 .0060215 .0018515 0280295 2539255	.0701137 .0518888 .02644 .0542966 .0132625 .016111 .0393915 .1934079	-1.49 -0.22 -0.05 1.46 0.45 0.11 -0.71	0.144 0.824 0.962 0.152 0.652 0.909 0.480 0.195	245028 1158377 0543814 0300225 020617 0305084 1071496 6423967	.036627 .0926059 .0518312 .1880933 .03266 .0342114 .0510907 .1345458
year 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98	.0676702 .1865317 .2485785 .2569276 .2505044 .2292094 .2715517 .3302087 .4184033 .4274345 .4992313 .5644762 .7010562 .7656106 .8085042 .8406783 .8368897 .8428252 .7985925 .787869 .7426846 .693198	.0162234 .0279303 .0398247 .0441591 .0552367 .0683524 .0836701 .0991093 .1156434 .1327176 .1477365 .1624827 .2107014 .2205978 .2334615 .2436728 .2525728 .2525728 .2644269 .2765084 .2843986 .2966396 .3071174	4.17 6.68 6.24 5.82 4.54 3.35 3.32 3.32 3.33 3.47 3.45 3.31 9.25 2.77 2.50	0.000 0.000 0.000 0.000 0.002 0.002 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.001 0.001 0.002	.0350845 .130432 .1685882 .1682314 .1395581 .0919195 .1034954 .1311418 .1861267 .1608633 .2024938 .23812 .2778501 .3225269 .3395831 .3512471 .3295823 .3117082 .2432089 .2166375 .1468665 .0763345	.1002558 .2426314 .3285687 .3456238 .3614506 .3664994 .439608 .5292756 .6506799 .6940056 .7959688 .8908324 1.124262 1.208694 1.277425 1.33011 1.344197 1.373942 1.353976 1.3591 1.3591
cons	4.243414	1.159203	3.66	0.001	1.915085	6.571743
sigma_u sigma_e rho	.94152993 .13910999 .97863663	(fraction	of variar	nce due t	co u_i)	

```
525 predict ehat7,xb
526
527 predict s7, residual
529 graph twoway scatter s7 ehat7, yline(0)
530
531
532 testparm i.year
   (1)
         78.year = 0
   (2)
         79.year = 0
   (3)
         80.\overline{year} = 0
   (4)
         81.year = 0
   (5)
         82.year = 0
   (6)
         83.year = 0
         84.year = 0
   (7)
   (8)
         85.year = 0
   (9)
         86.year = 0
   (10)
         87.year = 0
   (11)
         88.year = 0
   (12)
         89.year = 0
         90.year = 0
   (13)
   (14)
         91.year = 0
   (15)
         92.year = 0
   (16)
         93.year = 0
   (17)
         94.\overline{y}ear = 0
   (18)
         95.year = 0
   (19)
         96.year = 0
         97.\overline{y}ear = 0
   (20)
   (21)
         98.year = 0
   (22)
        99.year = 0
         F(22,
                   50) =
                             21.15
               Prob > F =
                              0.0000
534 /*Other Study w.r.y mur,rob and other vio w.r.t shall law and other variables */
535
536
537 reg logmur logincarc rate pb1064 pw1064 pm1029 pop avginc shall logdensity, vce(robust)
                                                      Number of obs
                                                                                 1,173
 Linear regression
                                                      F(8, 1164)
                                                                                236.17
                                                                                0.0000
                                                      Prob > F
                                                                         =
                                                      R-squared
                                                                                0.6493
                                                      Root MSE
                                                                                .41801
                                   Robust
          logmur
                    Coefficient std. err.
                                                   t
                                                        P>|t|
                                                                   [95% conf. interval]
  logincarc rate
                       .7362824
                                   .0370714
                                               19.86
                                                        0.000
                                                                   .6635481
                                                                                .8090168
          pb1064
                      .0398446
                                  .0187626
                                                2.12
                                                        0.034
                                                                   .0030323
                                                                                 .076657
                       .0076499
                                                        0.392
                                                                  -.0098734
                                                                                .0251732
          pw1064
                                   .0089313
                                                0.86
          pm1029
                      .1661738
                                   .0149406
                                               11.12
                                                        0.000
                                                                   .1368602
                                                                                .1954873
                                                                   .0167798
                        .022887
                                   .0031127
                                                7.35
                                                        0.000
                                                                                .0289941
             pop
          avginc
                     -.0420935
                                   .008937
                                               -4.71
                                                        0.000
                                                                   -.059628
                                                                               -.0245591
                     -.2172423
                                   .0336449
                                               -6.46
                                                        0.000
                                                                  -.2832537
                                                                                -.151231
           shall
      logdensity
                        .075228
                                   .0114808
                                                6.55
                                                        0.000
                                                                   .0527027
                                                                                .0977533
           _cons
                     -4.702676
                                  .6090757
                                               -7.72
                                                        0.000
                                                                  -5.897685
                                                                               -3.507667
```

## 538 estimate store olsmur

539

540 reg logrob logincarc rate pb1064 pw1064 pm1029 pop avginc shall logdensity, vce(robust)

Linear regression Number of obs 1,173 F(8, 1164) Prob > F 319.82 0.0000 =

R-squared = 0.6899 Root MSE = .53341

logrob	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pb1064 pw1064 pm1029 pop avginc shall logdensity _cons	.6159967 .042355 .0149416 .1600125 .0472803 .0474107 4178669 .2307483 -2.448641	.0363407 .0220157 .0112489 .0131161 .0042123 .0078771 .0440234 .0129727 .8464578	16.95 1.92 1.33 12.20 11.22 6.02 -9.49 17.79 -2.89	0.000 0.055 0.184 0.000 0.000 0.000 0.000 0.000	.5446962 0008398 0071288 .1342787 .0390158 .0319557 504241 .2052959 -4.109394	.6872973 .0855498 .037012 .1857464 .0555448 .0628657 3314928 .2562007 787887

#### 541 estimate store olsrob

543 reg logothervio logincarc\_rate pb1064 pw1064 pm1029 pop avginc shall logdensity, vce(robust)

Number of obs Linear regression 1,173 253.52 F(8, 1164) = Prob > F 0.0000 = =

0.6138 R-squared Root MSE .36755

logothervio	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pb1064 pw1064 pm1029 pop avginc shall logdensity _cons	.7516862 0220912 0033954 .0995236 .0156382 .0117596 2409245 .0442578 .4057572	.0231836 .0158217 .0078905 .0099764 .001999 .0065301 .0296171 .0092765 .5488479	32.42 -1.40 -0.43 9.98 7.82 1.80 -8.13 4.77 0.74	0.000 0.163 0.667 0.000 0.000 0.072 0.000 0.000 0.460	.706199805313350188767 .0799498 .011716100105252990334 .02605726710848	.7971726 .0089511 .0120859 .1190973 .0195602 .0245717 1828156 .0624584 1.482599

#### 544 estimate store olsothervio

546 xtreg logmur logincarc rate pb1064 pw1064 pm1029 pop avginc shall logdensity, fe vce(cluster state

Fixed-effects (within) regression Group variable: <b>stateid</b>	Number of obs Number of group		1,173 51
R-squared:     Within = 0.1448     Between = 0.3204     Overall = 0.2658	а	in = vg = ax =	23 23.0 23
corr(u i, Xb) = -0.8914	F( <b>8,50</b> ) Prob > F	=	9.19 0.0000

(Std. err. adjusted for **51** clusters in **stateid**)

logmur	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pb1064 pw1064 pm1029 pop avginc shall logdensity _cons	159241 0234734 .0144005 .0038781 0088248 .0378963 056433 3707012 .3594866	.0639745 .0765748 .0133949 .0222478 .0255495 .0182295 .0393894 .207867	-2.49 -0.31 1.08 0.17 -0.35 2.08 -1.43 -1.78 0.38	0.016 0.760 0.288 0.862 0.731 0.043 0.158 0.081 0.709	2877376 1772784 0125038 040808 0601424 .0012813 1355489 7882143 -1.563755	0307444 .1303316 .0413049 .0485642 .0424928 .0745113 .0226829 .046812 2.282729
sigma_u sigma_e rho	1.254499 .2204641 .97004114	(fraction	of varia	nce due t	to u_i)	

547 estimate store femur

548

549 xtreg logrob logincarc\_rate pb1064 pw1064 pm1029 pop avginc shall logdensity, fe vce(cluster state

Fixed-effects (within) regression Group variable: stateid	Number of obs Number of groups		1,173 51
R-squared:     Within = 0.0588     Between = 0.3738     Overall = 0.3538	Obs per group: min avg max	<sub>_</sub> =	23 23.0 23
corr(u i, Xb) = <b>0.3838</b>	F( <b>8,50</b> ) Prob > F	= =	2.6 <b>4</b> 0.0171

(Std. err. adjusted for **51** clusters in **stateid**)

logrob	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pb1064 pw1064 pm1029 pop avginc shall logdensity _cons	1989198 .1098281 .0361401 0258184 .0189827 0041104 0127498 .0739916 3.430877	.1078274 .0434775 .01843 .0381056 .0191883 .0215783 .0584114 .2401965 1.155748	-1.84 2.53 1.96 -0.68 0.99 -0.19 -0.22 0.31 2.97	0.071 0.015 0.055 0.501 0.327 0.850 0.828 0.759 0.005	4154976 .0225009 0008776 1023559 0195582 0474518 1300725 4084572 1.10949	.0176579 .1971553 .0731578 .050719 .0575237 .0392309 .104573 .5564404 5.752265
sigma_u sigma_e rho	.80776408 .21265688 .93518335	(fraction	of varia	nce due t	to u_i)	

550 estimate store ferob

551

552 xtreg logothervio logincarc\_rate pb1064 pw1064 pm1029 pop avginc shall logdensity, fe vce(cluster

Fixed-effects (within) regression Group variable: <b>stateid</b>	Number of obs Number of group		1,173 51
R-squared: Within = 0.3584 Between = 0.0656		in = vq =	23 23.0
Overall = <b>0.0370</b>		ax =	23
$corr(u_i, Xb) = -0.8084$	F( <b>8,50</b> ) Prob > F	= =	16.86 0.0000

logothervio	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pb1064 pw1064 pw1029 pop avginc shall logdensity _cons	.0186821 .0243922 .0316746 0761758 .0354944 .0141287 0528694 3824609 3.328689	.0781843 .0352095 .0157847 .0282489 .0131615 .0144215 .0466816 .2017059 .8751216	0.24 0.69 2.01 -2.70 2.70 0.98 -1.13 -1.90 3.80	0.812 0.492 0.050 0.010 0.010 0.332 0.263 0.064 0.000	1383556 0463282 00003 1329155 .0090588 0148378 1466322 7875991 1.570955	.1757199 .0951126 .0633792 0194362 .0619301 .0430951 .0408935 .0226773 5.086422
sigma_u sigma_e rho	.94852485 .17379294 .96751922	(fraction	of variar	nce due t	to u_i)	

553 estimate store feothervio

554

555 xtreg logmur logincarc\_rate pb1064 pw1064 pm1029 pop avginc shall logdensity i.year, fe vce(cluste

Fixed-effects (within) regression Group variable: <b>stateid</b>	Number of obs Number of groups		1,173 51
<pre>R-squared:     Within = 0.2743     Between = 0.3462     Overall = 0.2602</pre>	ar	n = rg = ax =	23 23.0 23
corr(u i, Xb) = -0.8625	F( <b>30,50</b> ) Prob > F	= =	23.56 0.0000

(Std. err. adjusted for **51** clusters in **stateid**)

logmur	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logingara rata	097374	.0632256	-1.54	0.130	2243664	.0296184
logincarc_rate pb1064	0747712	.0953016	-0.78	0.130	2661901	.1166478
pb1004 pw1064	0121343	.0242838	-0.78	0.430	0609099	.0366412
pm1029	.072678	.0436957	1.66	0.103	0150874	.1604434
pop	0220534	.0255257	-0.86	0.392	0733232	.0292164
avginc	.0655945	.0171512	3.82	0.000	.0311452	.1000438
shall	0182687	.0405761	-0.45	0.654	0997682	.0632308
logdensity	2756466	.1953226	-1.41	0.164	6679636	.1166703
- 3 2						
year						
<sup>-</sup> 78	.0073549	.0325562	0.23	0.822	0580361	.0727458
79	.0835518	.0305103	2.74	0.009	.02227	.1448336
80	.13454	.0458216	2.94	0.005	.0425046	.2265753
81	.1542946	.0543531	2.84	0.007	.0451232	.2634661
82	.0900484	.0620696	1.45	0.153	0346219	.2147188
83	.0461393	.0704676	0.65	0.516	0953991	.1876778
84	0568242	.0763014	-0.74	0.460	21008	.0964315
85	004386	.090361	-0.05	0.961	1858814	.1771095
86	.0737611	.0963548	0.77	0.448	1197733	.2672954
87	.0625852	.1051157	0.60	0.554	148546	.2737163
88	.0808516	.1263883	0.64	0.525	1730066	.3347099
89	.0908247	.1413771	0.64	0.524	1931395	.374789
90	.2010231	.1838312	1.09	0.279	1682126	.5702589
91	.2596706	.1959554	1.33	0.191	1339174	. 6532586
92	.2321529	.2046	1.13	0.262	1787983	.6431041
93	. 3285592	.2110069	1.56	0.126	0952606	.752379
94	.2266539	.2244348	1.01	0.317	2241366	. 6774444
95	.2499018	.2272343	1.10	0.277	2065117	.7063153
96	.1904031	.2401148	0.79	0.432	2918817	. 6726879
97	.0930874	.2439126	0.38	0.704	3968255	.5830004
98	.0360549	.2573069	0.14	0.889	4807612	.552871

99	0248638	.2624991	-0.09	0.925	5521087	.5023811
_cons	. 6804811	1.355935	0.50	0.618	-2.042994	3.403956
sigma_u sigma_e rho	1.1403091 .20512592 .96865522	(fraction	of varia	nce due t	co u_i)	

556 estimate store tfemur

```
557 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
     89.\overline{year} = 0
(12)
(13)
     90.year = 0
(14)
     91.year = 0
     92.year = 0
(15)
(16)
     93.year = 0
     94.year = 0
(17)
(18)
     95.year = 0
     96.year = 0
(19)
(20) 97.year = 0
(21)
     98.year = 0
(22) 99. year = 0
     F(22, 50) =
                        18.49
```

Prob > F =

0.0000

558 559

560 xtreg logrob logincarc\_rate pb1064 pw1064 pm1029 pop avginc shall logdensity i.year, fe vce(cluste

```
Fixed-effects (within) regression
                                                 Number of obs
                                                                          1,173
                                                 Number of groups =
Group variable: stateid
                                                                             51
R-squared:
                                                 Obs per group:
     Within = 0.2593
                                                               min =
                                                                             23
     Between = 0.0112
                                                               avg =
                                                                           23.0
                                                               max =
     Overall = 0.0227
                                                                             23
                                                 F(30,50)
                                                                          41.63
                                                                         0.0000
corr(u i, Xb) = -0.0431
                                                 Prob > F
```

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

logrob	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logincarc_rate pb1064 pw1064 pm1029 pop avginc shall logdensity	2210864 0211238 021238 .1142254 0028893 .0163426 .0084954 .0499362	.114238 .0728314 .0336132 .0745984 .0209791 .0216896 .0519241 .2914895	-1.94 -0.29 -0.63 1.53 -0.14 0.75 0.16	0.059 0.773 0.530 0.132 0.891 0.455 0.871 0.865	4505402 1674099 0887521 0356099 0450269 0272223 0957973 5355377	.0083675 .1251623 .0462761 .2640608 .0392484 .0599074 .112788 .6354102
year 78 79 80	.0427367 .1663092 .2809688	.020344 .0345572 .0497179	2.10 4.81 5.65	0.041 0.000 0.000	.0018745 .096899 .1811075	.0835989 .2357195 .3808301

```
81
                     .3216487
                                             6.02
                                                     0.000
                                 .0534717
                                                               .2142476
                                                                            .4290499
                                                               .1528367
             82
                                                                            .4307927
                     .2918147
                                .0691929
                                              4.22
                                                     0.000
                                .0942281
                                                               .0331732
                                                                            .4116987
             83
                      .222436
                                              2.36
                                                     0.022
             84
                     .1933769
                                 .109634
                                              1.76
                                                     0.084
                                                               -.0268296
                                                                            .4135834
                                                               -.0194436
             85
                     .2398075
                                .1290732
                                                                            .4990586
                                              1.86
                                                     0.069
             86
                     .3325581
                                .1526886
                                              2.18
                                                     0.034
                                                                 .025874
                                                                            .6392421
                     .3157822
                                .1698457
                                                                            .6569273
             87
                                              1.86
                                                     0.069
                                                               -.0253628
                                                               -.0138079
             88
                     .3664797
                                 .1893335
                                              1.94
                                                     0.059
                                                                            .7467673
                                                               .0056747
             89
                     .4377827
                                .2151334
                                              2.03
                                                     0.047
                                                                            .8698908
             90
                     .5825199
                                                               .0363124
                                                                            1.128727
                                  .27194
                                              2.14
                                                     0.037
             91
                     .7160606
                                 .2851327
                                              2.51
                                                     0.015
                                                                .1433548
                                                                            1.288766
                                .3002344
                                                               .1248233
             92
                     .7278618
                                              2.42
                                                     0.019
                                                                             1.3309
             93
                     .7566171
                                .3146878
                                              2.40
                                                     0.020
                                                                .124548
                                                                            1.388686
             94
                     .7839902
                                 .3275994
                                              2.39
                                                     0.021
                                                                .1259874
                                                                            1.441993
             95
                     .8031932
                                              2.37
                                                               .1216535
                                                                            1.484733
                                 .3393177
                                                     0.022
             96
                      .761103
                                .3567786
                                              2.13
                                                     0.038
                                                               .0444922
                                                                            1.477714
                                 .3639217
                                                               -.0244592
                                                                            1.437457
             97
                     .7064991
                                              1.94
                                                     0.058
             98
                      . 6241532
                                 .3734595
                                              1.67
                                                     0.101
                                                               -.1259623
                                                                            1.374269
             99
                     .5591909
                                .3879089
                                              1.44
                                                     0.156
                                                               -.2199471
                                                                            1.338329
           _cons
                     4.917915
                                1.858755
                                              2.65
                                                     0.011
                                                                1.184497
                                                                            8.651333
         sigma u
                    .93532373
                    .19054733
         sigma e
             rho
                    .96015065
                                (fraction of variance due to u i)
561 estimate store tferob
         78.year = 0
   (2)
        79.year = 0
   (3)
        80.year = 0
        81.\overline{y}ear = 0
   (4)
   (5)
        82.year = 0
```

562 testparm i.year

```
83.year = 0
(6)
(7)
     84.year = 0
(8)
    85.year = 0
(9)
    86.year = 0
(10)
     87.year = 0
     88.year = 0
(11)
(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
     98.year = 0
(21)
(22) 99.year = 0
     F(22, 50) =
                        25.98
          Prob > F =
                        0.0000
```

563 564

565 xtreg logothervio logincarc rate pb1064 pw1064 pm1029 pop avginc shall logdensity i.year, fe vce(c

```
Number of obs
                                                                          1,173
Fixed-effects (within) regression
                                                Number of groups =
Group variable: stateid
R-squared:
                                                 Obs per group:
     Within = 0.5059
                                                               min =
                                                                             23
                                                                           23.0
     Between = 0.1236
                                                               avg =
     Overall = 0.0758
                                                               max =
                                                 F(30,50)
                                                                          36.23
corr(u_i, Xb) = -0.8723
                                                 Prob > F
                                                                         0.0000
```

logothervio	Coefficient	Robust std. err.	t	P> t	[95% conf.	interval]
logincarc rate	0421034	.0825481	-0.51	0.612	2079061	.1236992
pb1064	0995495	.0585977	-1.70	0.096	2172464	.0181474
pw1064	0186143	.0285973	-0.65	0.518	0760537	.038825
pm1029	.095413	.0588427	1.62	0.111	022776	.2136019
pop	.0149746	.013892	1.08	0.286	0129283	.0428776
avginc	.0130267	.0188252	0.69	0.492	0247848	.0508382
sĥall	0504476	.0421777	-1.20	0.237	1351641	.0342689
logdensity	4011632	.2086889	-1.92	0.060	8203271	.0180008
year						
78	.0734384	.0197298	3.72	0.001	.0338099	.1130668
79	.198456	.0329327	6.03	0.000	.1323086	.2646033
80	.2476453	.0433918	5.71	0.000	.1604904	.3348002
81	.2427268	.0503237	4.82	0.000	.1416486	.3438049
82	.2616063	.0651803	4.01	0.000	.1306877	.3925248
83	. 2639967	.0802167	3.29	0.002	.1028768	. 4251166
84	.3392178	.0987423	3.44	0.001	.1408881	.5375475
85	. 4049533	.1153271	3.51	0.001	.1733119	. 6365946
86	. 4927675	.1332299	3.70	0.001	.2251674	.7603677
87	.5183534	.1519802	3.41	0.001	.2130921	.8236146
88	.5979343	.1685314	3.55	0.001	.2594289	. 9364396
89	. 659286	.18495	3.56	0.001	.2878029	1.030769
90	. 8370833	.2380779	3.52	0.001	. 3588898	1.315277
91	.8893727	.248637	3.58	0.001	.3899707	1.388775
92	.9463117	.2640573	3.58	0.001	. 4159371	1.476686
93	.9847774	.276249	3.56	0.001	.4299149	1.53964
94	.9826707	.2867517	3.43	0.001	.406713	1.558628
95	. 9909005	.2996685	3.31	0.002	. 3889986	1.592802
96	.9502984	.3128963	3.04	0.004	.3218277	1.578769
97	. 9569853	.3226646	2.97	0.005	.3088944	1.605076
98	. 9221287	.3364844	2.74	0.008	.2462798	1.597978
99	.8778705	.3484835	2.52	0.015	.1779208	1.57782
cons	4.185182	1.216814	3.44	0.001	1.741139	6.629226
sigma_u	1.1290767					
sigma_e	.15403702	, ,		, .		
rho	.98172765	(fraction	oi varian	nce due t	10 u_1)	

566 estimate store tfeothervio

567 testparm i.year

78.year = 0 79.year = 0 80.year = 0 (1)(2) 81.year = 0 82.year = 0 83.year = 0 (4) (5) (6) 84.year = 0 85.year = 0 86.year = 0 87.year = 0 (7) (8) (9) (10) 88.year = 0(11)(12) 89.year = 090.year = 0(13) $91.\overline{y}ear = 0$ (14)92.year = 0(15)93.year = 0 94.year = 0 (16)(17)95.year = 0 96.year = 0 97.year = 0 (18) (19)

98.year = 0(22) 99.year = 0

(20) (21)

568 569 /\*Compare other crime rates study\*/ 570

571 estimate table olsmur femur tfemur

Variable	olsmur	femur	tfemur
logincarc ~e pb1064 pw1064 pm1029 pop avginc shall logdensity	.73628244 .03984465 .00764987 .16617375 .02288696 04209353 21724231 .07522799	15924099 02347342 .01440054 .00387808 00882476 .0378963 05643298 37070118	09737396 07477117 01213434 .07267798 0220534 .06559448 01826872 27564665
year 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98			.00735488 .08355178 .13453998 .15429464 .09004845 .04613934 05682424 00438596 .07376107 .06258517 .08085164 .09082472 .20102314 .25967063 .23215288 .32855918 .22665391 .24990178 .19040309 .09308741 .03605491 02486378
_cons	-4.7026758	.3594866	.68048106

572 estimate table olsrob ferob tferob

Variable	olsrob	ferob	tferob
logincarc ~e pb1064 pw1064 pm1029 pop avginc shall logdensity	.61599673 .042355 .01494163 .16001255 .04728032 .04741071 41786691 .2307483	19891984 .10982811 .03614011 02581845 .01898272 00411044 01274975 .07399156	22108639 02112381 021238 .11422541 00288926 .01634256 .00849535 .04993624
year 78 79 80 81 82 83 84 85 86			.0427367 .16630925 .28096882 .32164875 .29181474 .22243596 .1933769 .2398075 .33255808 .31578224

88	.36647969
89	. 43778271
90	.58251989
91	.71606062
92	.72786176
93	.75661711
94	.78399018
95	.80319324
96	.76110303
97	.70649908
98	. 62415318
99	.55919087

3.4308775

4.917915

573 estimate table olsothervio feothervio tfeothervio

-2.4486406

\_cons

Variable	olsother~o	feothervio	tfeother~o
logincarc ~e pb1064 pw1064 pm1029 pop avginc shall logdensity	.751686170220912100339542 .09952356 .01563815 .011759612409245 .04425778	.01868212 .02439221 .03167461 07617584 .03549443 .01412865 05286935 38246089	0421034 09954946 01861435 .09541296 .01497463 .01302674 05044761 40116315
year 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98			.07343839 .19845597 .24764528 .24272678 .26160626 .26399673 .3392178 .40495329 .49276755 .51835337 .59793428 .65928599 .83708333 .88937274 .94631173 .98477736 .98267066 .9909005 .95029843 .95698529 .92212866 .87787054
_cons	.40575716	3.3286885	4.1851825

574 575 translate @Results "Project.pdf"