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name: <unnamed>
        log: C:\Users\ksue\Documents\RGS\SoSe 19\Microeconometrics\Tutorials\4\Proble
  > mSet4_logfile_KS.smcl
   log type: smcl
opened on: 20 May 2019, 20:23:36
2 . * ECONOMETRICS II - Problem Set 4
3 . * Karolin Süß
4 . * MAY 21, 2019
5 . use otc regulation
8 . *a)
9. *Proportion of Population covered by law 10. *Total population for each event date
11. drop if mi(event_date)
  (112 observations \overline{d}eleted)
12. drop if mi(pop_all_fitted)
  (450 observations deleted)
13.
14. sort event_date
15. bysort event date: egen total pop=total(pop all fitted)
16.
17. * convert dates into STATA-Dates
18. generate event_date_aux = date(event_date , "DMY")
19. format event date aux %td
20. drop event date
21. rename event date aux event date
23. generate any law aux = date(any law , "MDY")
24. format any_law_aux %td
25. drop any law
26. rename any law aux any law
28. *Create weights for population under law
29. *reduce dates to month and year
30. gen event_date_ym=mofd(event_date)
31. format event_date_ym %tm
33. gen any law ym=mofd(any law)
34. format any_law_ym %tm
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35.
36. *Dummy=1 if law already inact
37. gen OTC=(event_date>any_law)
39. *Attention if law was implemented in respective month
40. gen attention=(event_date_ym==any_law_ym)
42. *Find end of month to extract number of days of the month
43. gen dd = day(any law)
44. gen mm = month(any_law)
45. gen yyyy = year(any_law)
46. gen mm1=mm+1 if mm<12
  (99 missing values generated)
47. replace mm1=1 if mm==12
  (99 real changes made)
48. replace yyyy=yyyy+1 if mm==12
  (99 real changes made)
49. gen end month = mdy(mm1, 1, yyyy)-1
50. format end month %td
51. gen days_month=day(end_month)
53. *Fraction of days under law
54. gen frac=(days_month-dd)/days_month
55. replace OTC=frac if attention==1
 (47 real changes made)
57. *drop helping variables
58. drop dd
59. drop mm
60. drop yyyy
61. drop mm1
62. drop end_month
63. drop days_month
64. drop frac
65. drop attention
67. *weighted population
68. gen weighted_population=OTC*pop_all_fitted
```

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69. *Population under law
70. bysort event_date: egen pop underlaw=total(weighted population)
72. bysort event_date: gen frac_underlaw=pop_underlaw/total_pop
73.
74. *labs with 9oz or greater
75. gen cap over 9 oz=tot labs - cap under 2 oz-cap 2 8 oz
77. *avg number of labs per event date
78. bysort event date: egen avg cap under 2 oz=mean(cap under 2 oz)
79. bysort event date: egen avg cap 2 8 oz=mean(cap 2 8 oz)
80. bysort event date: egen avg cap over 9 oz=mean(cap over 9 oz)
81. *plot
82. twoway scatter avg cap under 2 oz avg cap 2 8 oz avg cap over 9 oz event date ym, //
                    msymbol(T Oh S) lwidth(medium) mcolor(blue red green) lcolor(blue r
 > ed green) lpattern(dot) connect(1 2 3) yaxis(1) yscale(range(0) axis(1)) ytitle("Pro
  > portion of Population Covered by Laws") ///
 > || line frac_underlaw event_date_ym, yaxis(2) yscale(range(0) axis(2)) lcolor(blac > k) lwidth(medium) connect(direct) xtitle("Date") tlabel(2000m1(24)2008m2, format(%tm
  > CY)) ///
                     legend(symxsize(9) cols(2) rows(2) order(1 "Lab capacity under 2 oz"
  > 2 "Lab capacity 2-8 oz" 3 "Lab capacity 9 oz or greater" 4 "OTC law coverage")) yti
  > tle("Average number of labs seized per month", axis(2))
  (note: named style 1 not found in class connectstyle, default attributes used)
  (note: named style 2 not found in class connectstyle, default attributes used)
  (note: named style 3 not found in class connectstyle, default attributes used)
83. graph export Dobkinetal Fig2.pdf, replace
  (file Dobkinetal Fig2.pdf written in PDF format)
85. *************************
86. *Ex.b)
87. *Center event dates around any_law
88. gen diff=event date ym-any law ym
90. bysort diff: egen avg cap under 2 oz diff=mean(cap under 2 oz)
91. bysort diff: egen avg cap 2 8 oz diff=mean(cap 2 8 oz)
92. bysort diff: egen avg_cap_over_9_oz_diff=mean(cap_over_9_oz)
94. twoway scatter avg_cap_under_2_oz_diff avg_cap_2_8_oz_diff avg_cap_over_9_oz_diff di
 > ff, ///
                     tlabel(-75(25)50) xline(0) msymbol(T Oh S) lwidth(medium) mcolor(bl
 > ue red green) lcolor(blue red green) lpattern(dot) connect(1 2 3)
                    xtitle("Month From (Until) Implementation of Law") ///
                    legend(symxsize(9) cols(2) rows(2) order(1 "Lab capacity under 2 oz"
    2 "Lab capacity 2-8 oz" 3 "Lab capacity 9 oz or greater")) ytitle("Average number o
  > f labs seized per month")
  (note: named style 1 not found in class connectstyle, default attributes used)
  (note: named style 2 not found in class connectstyle, default attributes used) (note: named style 3 not found in class connectstyle, default attributes used)
```

95. graph export labs\_distance\_any\_law.pdf, replace
 (file labs\_distance\_any\_law.pdf written in PDF format)

97. tab diff if diff>30

diff	Freq.	Percent	Cum.
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	23 21 10 7 6 5 3 3 2 2 1 1 1	25.84 23.60 11.24 7.87 6.74 5.62 3.37 3.37 2.25 2.25 1.12 1.12 1.12	25.84 49.44 60.67 68.54 75.28 80.90 84.27 87.64 89.89 92.13 93.26 94.38 95.51 96.63 97.75
46 47	1 1	1.12 1.12	98.88 100.00
Total	89	100.00	· · · · · · · · · · · · · · · · · · ·

## 98. tab diff if diff>24

diff	Freq.	Percent	Cum.
25	34	12.59	12.59
26	34	12.59	25.19
27	31	11.48	36.67
28	30	11.11	47.78
29	28	10.37	58.15
30	24	8.89	67.04
31	23	8.52	75.56
32	21	7.78	83.33
33	10	3.70	87.04
34	7	2.59	89.63
35	6	2.22	91.85
36	5	1.85	93.70
37	5 3 3	1.11	94.81
38	3	1.11	95.93
39	2	0.74	96.67
40	2	0.74	97.41
41	1	0.37	97.78
42	1	0.37	98.15
43	1	0.37	98.52
44	1	0.37	98.89
45	1	0.37	99.26
46	1	0.37	99.63
47	1	0.37	100.00
Total	270	100.00	

## 101 encode state\_ab, gen(state)

102 xtset state event\_date
 panel variable: state (unbalanced)
 time variable: event\_date, 15jan2000 to 15mar2008, but with gaps
 delta: 1 day

103

104 eststo: xtreg cap\_under\_2\_oz OTC i.event\_date\_ym, fe vce(cluster state)

Fixed-effects (within) regression Group variable: <b>state</b>	Number of obs Number of group		4,937 50
R-sq:     within = 0.1419     between = 0.2305     overall = 0.0449	ā	nin = lvg = nax =	87 98.7 99
corr(u_i, Xb) = -0.0354	$\frac{F(49,49)}{\text{Prob} > F}$	= =	

(Std. Err. adjusted for **50** clusters in state)

		(sca.	EII. au	justeu It	or 30 crusters	III State)
		Robust				
cap_under_2~z	Coef.	Std. Err.	t	P> t	[95% Conf.	<pre>Interval]</pre>
	4 00060	1 160000	2.44	0 001	6 251 602	1 660660
OTC	-4.02068	1.169908	-3.44	0.001	-6.371698	-1.669662
event date ym						
481	.5102041	.5764667	0.89	0.380	6482491	1.668657
482	5306122	.956649	-0.55	0.582	-2.45307	1.391846
483	-3.244898	1.073069	-3.02	0.004	-5.401311	-1.088485
484	-2.306122	1.089782	-2.12	0.039	-4.496121	1161242
485	-2.795918	1.046241	-2.67	0.010	-4.898418	6934191
486	-2.367347	.7790394	-3.04	0.004	-3.932885	8018086
487	-1.979592	.9108473	-2.17	0.035	-3.810008	1491756
488	-3.040816	1.251929	-2.43	0.019	-5.556661	5249715
489	-1.755102	1.11703	-1.57	0.123	-3.999859	. 4896545
490	-2.571429	1.453895	-1.77	0.083	-5.493141	.3502837
491	-3.59141	1.594382	-2.25	0.029	-6.79544	3873792
492	.2367829	1.975161	0.12	0.905	-3.732452	4.206018
493	-1.083217	1.527877	-0.71	0.482	-4.1536	1.987166
494	1.416783	1.799698	0.79	0.435	-2.199846	5.033412
495	.0567829	1.478938	0.04	0.970	-2.915254	3.028819
496	0032171	1.655168	-0.00	0.998	-3.329403	3.322969
497	-1.723217	1.696407	-1.02	0.315	-5.132274	1.68584
498	-2.263217	1.772471	-1.28	0.208	-5.825131	1.298697
499	6832171	1.612212	-0.42	0.674	-3.923078	2.556643
500	-1.923217	1.563917	-1.23	0.225	-5.066026	1.219592
501	5832171	1.324451	-0.44	0.662	-3.244802	2.078367
502	-1.343217	1.570533	-0.86	0.397	-4.499322	1.812887
503	-2.123217	1.797373	-1.18	0.243	-5.735173	1.488739
504	1.736783	1.449012	1.20	0.236	-1.175117	4.648682
505	.3967829	1.397058	0.28	0.778	-2.410711	3.204277
506	3032171	1.58807	-0.19	0.849	-3.494564	2.88813
507	5632171	1.670371	-0.34	0.737	-3.919954	2.79352
508 509	1632171 -1.523217	1.594349 1.813649	-0.10 -0.84	0.919 0.405	-3.367181 -5.167882	3.040746 2.121447
510	6232171	1.801184	-0.84	0.405	-4.242832	2.121447
511	7832171	1.637363	-0.33	0.731	-4.073622	2.507188
512	5632171	1.69407	-0.33	0.741	-3.967579	2.841145
513	.7567829	1.878382	0.40	0.689	-3.017968	4.531534
514	1432171	1.824117	-0.08	0.938	-3.808918	3.522484
515	5032171	1.938805	-0.26	0.796	-4.399392	3.392958
516	2.116783	1.882467	1.12	0.266	-1.666176	5.899742
517	1.476783	1.732087	0.85	0.398	-2.003977	4.957543
518	1.916783	1.677448	1.14	0.259	-1.454175	5.287741
519	1.916783	2.035608	0.94	0.351	-2.173924	6.00749
520	1.736783	2.108309	0.82	0.414	-2.500023	5.973589
521	.6567829	2.119961	0.31	0.758	-3.603437	4.917003
522	.6367829	2.03277	0.31	0.755	-3.448222	4.721788
523	.1567829	1.959477	0.08	0.937	-3.780934	4.0945

10.027936 7.5887659					
5	2.00000	5.15	5.500	0.515022	10.4007
9.700705	1.868595	5.19	0.000	5.945622	13.4557
					2.72936
					3.31450
					2.54854 3.54623
					2.98900
					3.37602
					3.60475
					4.23799
					3.65516
-2.262537	2.73061	-0.83	0.411	-7.749904	3.2248
-2.262537	2.860874	-0.79		-8.011679	3.48660
-2.222537	2.856999	-0.78	0.440	-7.96389	3.51881
-1.962537	2.776062	-0.71	0.483	-7.541243	3.61616
-2.222537	2.888296	-0.77	0.445	-8.026785	3.58171
-2.042537	2.854732	-0.72	0.478	-7.779336	3.69426
-2.082537	2.872296	-0.73	0.472	-7.854631	3.6895
					4.2622
					3.580
					3.3242
					4.0206
					4.82978 4.0206
					6.3589
					5.82302
					6.10838
					4.8572
					6.35499
					2.5038
-3.192459	2.722078	-1.17		-8.662681	2.2777
-3.239832	2.693393	-1.20	0.235	-8.652409	2.1727
-3.384012	2.549631	-1.33	0.191	-8.507689	1.7396
-1.475208	2.605924	-0.57	0.574	-6.712008	3.7615
-1.580885	2.671099	-0.59	0.557	-6.94866	3.786
-2.275577	2.576556	-0.88	0.381	-7.453361	2.9022
-1.674796	2.583981	-0.65	0.520	-6.867501	3.517
1.004212	2.692376	0.37		-4.406321	6.4147
2.386558	2.614702	0.91	0.366	-2.867883	7.6409
.9180237	2.742485	0.33		-4.593206	6.4292
					6.7561
					3.9647
					4.2589
					5.9324
					6.3179 6.3466
					5.3257
					6.2186
					7.1381
					8.3909
4.776783	2.670919	1.79		590629	10.144
3.516783	2.425213	1.45		-1.356866	8.3904
	2.450532	1.09	0.280	-2.247745	7.6013
8032171	2.277212	-0.35		-5.379446	3.7730
.2167829	2.240301	0.10	0.923	-4.28527	4.7188
1.136783	2.096821	0.54	0.590	-3.076936	5.3505
	.21678298032171 2.676783 3.516783 4.776783 3.261114 2.077197 1.057197 .3371965 .8771965 1.077197 .777196580225899 1.41761 .9180237 2.386558 1.004212 -1.674796 -2.275577 -1.580885 -1.475208 -3.384012 -3.239832 -3.192459 -2.749305 .69043198091545 .5308455 -1.475268 -1.662537 -1.182537 -2.342537 -2.342537 -2.342537 -2.222537 -1.742537 -2.222537 -1.742537 -2.222537 -1.562537 -2.222537 -1.562537 -2.222537 -1.562537 -2.222537 -1.562537 -2.222537 -1.562537 -2.222537 -1.562537 -2.222537 -2.262537 -2.262537 -2.262537 -2.262537 -2.262537 -2.362537 -2.362537 -2.182537 -2.182537 -2.182537 -2.182537 -2.262537 -2.262537 -2.262537 -2.262537 -2.262537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537 -2.302537	1.136783	1.136783       2.096821       0.54         .2167829       2.240301       0.10        8032171       2.277212       -0.35         2.676783       2.450532       1.09         3.516783       2.425213       1.45         4.776783       2.670919       1.79         3.261114       2.552716       1.28         2.077197       2.518399       0.82         1.057197       2.568438       0.41         .3371965       2.482391       0.14         .8771965       2.707404       0.32         1.077197       2.622183       0.41         .7771965       2.565346       0.30        8025967       2.518691       -0.32        9223899       2.431948       -0.38         1.41761       2.656563       0.53         .9180237       2.742485       0.33         2.386558       2.614702       0.91         1.004212       2.692376       0.37         -1.674796       2.583981       -0.65         -2.275577       2.576556       -0.88         -1.580885       2.671099       -0.59         -1.475208       2.6692346       -0.57	1.136783       2.096821       0.54       0.590         .2167829       2.240301       0.10       0.923         -8032171       2.277212       -0.35       0.726         2.676783       2.450532       1.09       0.280         3.516783       2.425213       1.45       0.153         4.776783       2.670919       1.79       0.080         3.261114       2.552716       1.28       0.207         2.077197       2.518399       0.82       0.413         1.057197       2.568438       0.41       0.682         .3371965       2.482391       0.14       0.893         .8771965       2.707404       0.32       0.747         1.077197       2.622183       0.41       0.683         .7771965       2.565346       0.30       0.763         -8025967       2.518691       -0.32       0.751        9223899       2.431948       -0.38       0.706         1.41761       2.656563       0.53       0.596         9.180237       2.742485       0.33       0.731         1.04212       2.692376       0.37       0.711         1.674796       2.583981       -0.65	1.136783       2.096821       0.54       0.590       -3.076936         2.2167829       2.240301       0.10       0.923       -4.28527        8032171       2.277212       -0.35       0.726       -5.379446         2.676783       2.450532       1.09       0.280       -2.247745         3.516183       2.670919       1.79       0.080      590629         3.261114       2.552716       1.28       0.207       -1.868762         2.077197       2.518399       0.82       0.413       -2.983716         1.057197       2.568438       0.41       0.682       -4.104273         .3371965       2.482391       0.14       0.682       -4.104273         .3871965       2.707404       0.32       0.747       -4.563535         1.077197       2.622183       0.41       0.683       -4.192278         .7771965       2.565346       0.30       0.763       -4.378059         -8025967       2.518691       -0.32       0.751       -5.864095         -8025967       2.518691       -0.32       0.751       -5.864095         -9180237       2.742485       0.33       0.739       -4.593206         -9180237

(est1 stored)

105 eststo: xtreg cap\_2\_8\_oz OTC i.event\_date\_ym, fe vce(cluster state)

Fixed-effects (within) regression Group variable: <b>state</b>	Number of obs = Number of groups =	<b>4</b> ,937 50
R-sq: within = 0.1944 between = 0.1833 overall = 0.0842	Obs per group:  min =  avg =	87 98.7 99
corr(u_i, Xb) = -0.0377	$max = \frac{F(47,49)}{Prob > F} = \frac{F(47,49)}{F}$	

		(Std.	Err. ad	justed fo	or <b>50</b> clusters	in state)
		D - 1 +				
cap 2 8 oz	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Intorvall
cap_z_6_0z	COEI.	sta. EII.		F/ L	[95% COIII.	
OTC	-2.127343	.5116322	-4.16	0.000	-3.155506	-1.09918
event_date_ym						
481	1428571	.1839237	-0.78	0.441	5124657	.2267514
482	.244898	.2233855	1.10	0.278	2040119	. 6938079
483 484	1836735	.2422784 .3161108	-0.76 -0.97	0.452 0.338	6705501 9413709	.3032031
485	3061224 2040816	.3725098	-0.97 -0.55	0.336	9526681	.329126 .5445048
486	244898	.2878569	-0.85	0.399	8233681	.3335722
487	.1632653	.3998742	0.41	0.685	640312	.9668426
488	.244898	.3516086	0.70	0.489	461686	.9514819
489	. 6734694	.4508924	1.49	0.142	2326327	1.579571
490	.3469388	.428364	0.81	0.422	5138909	1.207768
491	.101983	.3851363	0.26	0.792	6719774	.8759434
492	1.515728	.722846	2.10	0.041	.0631147	2.968342
493	.9957281	. 4949643	2.01	0.050	.0010601	1.990396
494	1.575728	.580916	2.71	0.009	.4083337	2.743123
495	1.095728	. 4555273	2.41	0.020	.1803117	2.011145
496	.8957281	. 4466853	2.01	0.050	0019197	1.793376
497	.8557281	.5150208	1.66	0.103	1792449	1.890701
498	.8957281	.4447374	2.01	0.050	.0019948	1.789461
499 500	1.115728 .9157281	.4759282	2.34	0.023 0.031	.1593145	2.072142
501	1.335728	.4111881 .481656	2.23 2.77	0.031	.0894148 .3678043	1.742042 2.303652
502	1.935728	.6401565	3.02	0.008	.6492854	3.222171
503	1.155728	.585219	1.97	0.054	0203134	2.33177
504	2.495728	.8497197	2.94	0.005	.7881524	4.203304
505	2.515728	.9554416	2.63	0.011	.5956963	4.43576
506	2.495728	.6603647	3.78	0.000	1.168676	3.822781
507	2.595728	.6804085	3.81	0.000	1.228396	3.96306
508	2.335728	.6091078	3.83	0.000	1.11168	3.559776
509	1.935728	. 6515131	2.97	0.005	. 6264636	3.244993
510	1.915728	. 6984799	2.74	0.008	.5120802	3.319376
511	2.835728	.7594355	3.73	0.000	1.309585	4.361871
512	2.295728	. 6759574	3.40	0.001	.937341	3.654115
513 514	2.655728 2.195728	.7490411 .6613276	3.55 3.32	0.001 0.002	1.150474 .8667405	4.160983 3.524716
515	2.195728	.7124721	3.32	0.002	.7639619	3.627494
516	4.015728	1.278018	3.14	0.003	1.447455	6.584001
517	3.195728	.88503	3.61	0.001	1.417194	4.974262
518	3.695728	1.098148	3.37	0.001	1.488917	5.90254
519	3.675728	1.066686	3.45	0.001	1.532143	5.819314
520	2.975728	.8329646	3.57	0.001	1.301823	4.649633
521	2.355728	.7624213	3.09	0.003	.8235852	3.887871
522	2.495728	.7764601	3.21	0.002	. 9353732	4.056083
523	2.135728	.761342	2.81	0.007	. 6057541	3.665702
524	2.655728	.7945666	3.34	0.002	1.058987	4.252469
525	3.075728	.8281311	3.71	0.001	1.411536	4.73992
526 527	2.135728	.636008	3.36	0.002	.8576222	3.413834
527 528	2.235728 3.275728	.7523047 .9868903	2.97 3.32	0.005 0.002	.7239151 1.292498	3.747541 5.258958
529	3.095728	.9149483	3.32	0.002	1.257071	4.934386
530	3.595728	1.054026	3.41	0.001	1.477583	5.713873
531	2.869766	.8822628	3.25	0.002	1.096792	4.642739
001				J. JUL		

(est2 stored)

106 eststo: xtreg cap\_over\_9\_oz OTC i.event\_date\_ym, fe vce(cluster state)

```
Number of obs =
                                                                       4,937
Fixed-effects (within) regression
Group variable: state
                                               Number of groups =
                                               Obs per group:
    within = 0.0747
                                                            min =
                                                                        98.7
    between = 0.0156
                                                            avg =
    overall = 0.0367
                                                            max =
                                                                         99
                                              \frac{F(45,49)}{Prob > F} =
corr(u i, Xb) = -0.0033
```

(Std. Err. adjusted for **50** clusters in state)

		(bta.	. DII. aa	Justea It	or <b>30</b> crusters	In State)
		Robust				
cap_over_9_oz	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
OTC	2735857	.313638	-0.87	0.387	9038649	. 3566935
event date ym						
$-\frac{481}{}$	0612245	.1569737	-0.39	0.698	376675	.254226
482	.3673469	.2197906	1.67	0.101	0743388	.8090327
483	1.27e-14	.1501731	0.00	1.000	3017841	.3017841
484	122449	.1431732	-0.86	0.397	4101662	.1652683
485	.244898	.2030449	1.21	0.234	1631361	.652932
486	.4693878	.3372175	1.39	0.170	2082762	1.147052
		.1815504				
487	.2857143		1.57	0.122	0791249	. 6505535
488	.5510204	.3422715	1.61	0.114	1367999	1.238841
489	.4693878	.2394489	1.96	0.056	0118028	.9505783
490	.4285714	.1997489	2.15	0.037	.027161	.8299818
491	.099829	.1610484	0.62	0.538	2238099	. 423468
492	. 9227738	.4984498	1.85	0.070	0788986	1.924446
493	.9027738	.3316402	2.72	0.009	.2363179	1.56923
494	1.542774	.7349609	2.10	0.041	.0658146	3.019733
495	.8827738	.524378	1.68	0.099	1710032	1.936551
496	.8627738	.3547863	2.43	0.019	.1498039	1.575744
497	1.162774	.5639803	2.06	0.045	.0294129	2.296135
498	.5627738	.2742309	2.05	0.046	.0116862	1.113861
499	1.262774	.5243973	2.41	0.020	.2089579	2.31659
				0.020	.1487782	
500	.6027738	.2259162	2.67			1.056769
501	1.202774	.3648805	3.30	0.002	.469519	1.936029
502	1.002774	.3829218	2.62	0.012	.2332636	1.772284
503	.7627738	.3633104	2.10	0.041	.0326742	1.492873
504	.8227738	.2754291	2.99	0.004	.2692782	1.376269
505	1.142774	.5624942	2.03	0.048	.0123994	2.273148
506	1.102774	. 455682	2.42	0.019	.1870464	2.018501
507	.8827738	.3606229	2.45	0.018	.158075	1.607473
508	.7427738	.3337348	2.23	0.031	.0721085	1.413439
509	.8027738	.324185	2.48	0.017	.1512995	1.454248
510	.4827738	.2524282	1.91	0.062	0244996	.9900472
511	.5427738	.2533873	2.14	0.037	.0335729	1.051975
512	.5227738	.1864776	2.80	0.007	.1480331	.8975145
513	.6227738	.2958124	2.11	0.040	.0283166	1.217231
514	.4827738	.225002	2.15	0.037	.0306154	.9349322
515	.4027738	.2187165	1.84	0.037	0367535	.842301
516	.9427738	. 2852495	3.31	0.002	.3695434	1.516004
517	.9827738	. 4273178	2.30	0.026	.1240466	1.841501
518	. 9627738	.3755761	2.56	0.013	.2080253	1.717522
519	. 6227738	.2571231	2.42	0.019	.1060655	1.139482
520	.4427738	.2654572	1.67	0.102	0906825	.9762301
521	.0827738	.2116948	0.39	0.697	3426429	.5081904
522	.3827738	.2660235	1.44	0.157	1518205	.917368
523	.3627738	.2334572	1.55	0.127	106376	.8319236
524	.4227738	.2259283	1.87	0.067	0312462	.8767938
525	.3827738	.1744812	2.19	0.033	.0321407	.7334069
526	.3627738	.2170829	1.67	0.101	0734707	.7990183
527	.2027738	.1795014	1.13	0.264	1579478	.5634953
528	.3227738	.2715633	1.19	0.240	2229531	.8685006
529	.3627738	.2528196	1.43	0.158	1452863	.8708338
530	.8227738		2.38	0.138		
		.3460304			.1273997	1.518148
531	.4871511	.313705	1.55	0.127	1432627	1.117565
532	.9082455	.5157469	1.76	0.084	1281867	1.944678
533	.8482455	.3839749	2.21	0.032	.076619	1.619872
534	.7682455	.3626686	2.12	0.039	.0394357	1.497055
535	.9482455	.3310344	2.86	0.006	.2830069	1.613484
536	.5282455	.2570811	2.05	0.045	.0116217	1.044869
537	.3682455	.2802084	1.31	0.195	1948544	.9313454
538	.0709813	.2658949	0.27	0.791	4633545	.6053172
539	.1737172	.2497995	0.70	0.490	3282738	.6757081
540	0662828	.3555882	-0.19	0.853	780864	.6482984
541	.0791889	.2379514	0.33	0.741	3989924	.5573702
		.2762086		0.741	3939316	
542	.1611305		0.58			.7161925
543	1695029	.341268	-0.50	0.622	8553066	.5163009
544	2226309	.3273165	-0.68	0.500	880398	. 4351363

sigma_u sigma_e rho	2.1596313 2.1032948 .51321315	(fraction	of varia	nce due t	o u i)	
_cons	.6994414	.1180264	5.93	0.000	. 4622585	. 936624
578	2236405	.5403135	-0.41	0.681	-1.309441	.862160
577	1836405	.5467077	-0.34	0.738	-1.282291	.915009
576	2436405	.5821535	-0.42	0.677	-1.413522	. 926240
575	3436405	.5747285	-0.60	0.553	-1.498601	.81131
574	1836405	.5883511	-0.31	0.756	-1.365976	. 99869
573	3236405	. 5972239	-0.54	0.590	-1.523807	. 87652
572	2636405	.5938917	-0.44	0.659	-1.457111	. 92982
571	1836405	.5417974	-0.34	0.736	-1.272423	. 90514
570	1636405	. 5247359	-0.31	0.756	-1.218137	.89085
569	2036405	.5641875	-0.36	0.720	-1.337418	.93013
568	3036405	.5976081	-0.51	0.614	-1.504579	.89729
567	3036405	.5561047	-0.55	0.588	-1.421175	.81389
566	2836405	.599321	-0.47	0.638	-1.488021	.92074
565	3036405	.5577901	-0.54	0.589	-1.424562	.81728
564	3836405	.5941263	-0.65	0.521	-1.577582	.8103
563	3436405	.5940287	-0.58	0.566	-1.537386	.85010
562	2236405	.5230765	-0.43	0.671	-1.274802	.82752
561	3036405	.5767979	-0.53	0.601	-1.462759	.85547
560	2636405	.6007847	-0.44	0.663	-1.470962	.94368
559	1636405	.5880752	-0.28	0.782	-1.345422	1.0181
558	3236405	.5758975	-0.56	0.577	-1.48095	.83366
557	2236405	.5642099	-0.40	0.694	-1.357463	.91018
556	0836405	. 4737972	-0.18	0.861	-1.035772	.86849
555	.0730135	.4348099	0.17	0.867	8007696	.94679
554	1911879	.3991021	-0.48	0.634	9932137	.61083
553	2911879	.4508621	-0.65	0.521	-1.197229	.61485
552	2966597	. 4754958	-0.62	0.536	-1.252204	. 65888
551	5302507	. 4890269	-1.08	0.284	-1.512987	.45248
550	3972698	.448459	-0.89	0.380	-1.298482	.50394
549	1900195	.4470778	-0.43	0.673	-1.088456	.70841
548	3266346	.3904732	-0.84	0.407	-1.11132	.45805
546 547	109557 3142009	.3077538 .3530365	-0.89	0.723	-1.023654	.39525
		コハフフにつり	-0.36	0.723	7280114	.50889

(est3 stored)

107 eststo: xtreg tot\_labs OTC i.event\_date\_ym, fe vce(cluster state)

Fixed-effects (within) regression Group variable: <b>state</b>	Number of obs Number of groups		4,937 50
<pre>R-sq:     within = 0.1856     between = 0.2007     overall = 0.0577</pre>	Obs per group: min avg max	=	87 98.7 99
corr(u_i, Xb) = -0.0337	<u>F(49,49)</u> Prob > F	= =	

(Std. Err. adjusted for **50** clusters in state)

tot_labs	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
OTC	-6.421609	1.817241	-3.53	0.001	-10.07349	-2.769727
event_date_ym 481 482 483 484 485 486 487 488	.3061224 .0816327 -3.428571 -2.734694 -2.755102 -2.142857 -1.530612 -2.244898	.6214196 1.077629 1.158753 1.253596 1.21164 .8556115 1.065188 1.351728	0.49 0.08 -2.96 -2.18 -2.27 -2.50 -1.44 -1.66	0.624 0.940 0.005 0.034 0.027 0.016 0.157 0.103	9426671 -2.083944 -5.757173 -5.253889 -5.189984 -3.862273 -3.671187 -4.961297	1.554912 2.247209 -1.09997 2154984 3202199 4234414 .609963

489	6122449	1.281664	-0.48	0.635	-3.187846	1.963356
490	-1.795918	1.293173	-1.39	0.171	-4.394647	.8028101
491	-3.389598	1.67795	-2.02	0.049	-6.761565	0176301
492	2.675285	1.693678	1.58	0.121	7282877	6.078857
493	.8152848	1.258771	0.65	0.520	-1.714311	3.34488
494	4.535285	1.230575	3.69	0.001	2.062352	7.008217
495	2.035285	1.1385	1.79	0.080	2526172	4.323187
496	1.755285	1.439248	1.22	0.228	-1.136993	4.647563
497	.2952848	1.096467	0.27	0.789	-1.908149	2.498718
498	8047152	1.431302	-0.56	0.577	-3.681023	2.071593
499	1.695285	1.332691	1.27	0.209	9828583	4.373428
500	4047152	1.544919	-0.26	0.794	-3.509346	2.699916
501	1.955285	1.008988	1.94	0.058	0723516	3.982921
502	1.595285	1.408856	1.13	0.263	-1.235918	4.426487
503	2047152	1.793665	-0.11	0.910	-3.80922	3.39979
504	5.055285	1.820353	2.78	0.008	1.397149	8.71342
505	4.055285	1.548432	2.62	0.012	.9435949	7.166975
506	3.295285	1.420685	2.32	0.025	.4403119	6.150258
507	2.915285	1.524256	1.91	0.062	1478216	5.978391
508	2.915285	1.440608	2.02	0.048	.0202738	5.810296
509	1.215285	1.769258	0.69	0.495	-2.340172	4.770741
510	1.775285	1.970691	0.90	0.372	-2.184967	5.735537
511	2.595285	1.818937	1.43	0.160	-1.060006	6.250576
512	2.255285	1.885118	1.20	0.237	-1.533002	6.043571
513	4.035285	2.033045	1.98	0.053	0502727	8.120842
514	2.535285	1.967468	1.29	0.204	-1.41849	6.48906
515	2.095285	2.066951	1.01	0.316	-2.058409	6.248979
516	7.075285	2.253811	3.14	0.003	2.546082	11.60449
517	5.655285	1.957144	2.89	0.006	1.722257	9.588313
518	6.575285	2.292049	2.87	0.006	1.96924	11.18133
519	6.215285	2.445931	2.54	0.014	1.300003	11.13057
520	5.155285	2.495224	2.07	0.044	.1409447	10.16962
521	3.095285	2.559648	1.21	0.232	-2.04852	8.23909
522	3.515285	2.312328	1.52	0.135	-1.131511	8.162081
523	2.655285	2.211563	1.20	0.236	-1.789017	7.099586
524			1.40	0.169		
	3.555285	2.546929			-1.56296	8.67353
525	4.595285	2.572719	1.79	0.080	574787	9.765357
526	2.715285	2.668913	1.02	0.314	-2.648097	8.078666
527		2.768205	0.59		-3.927631	7.198201
	1.635285			0.557		
528	6.275285	3.224564	1.95	0.057	2047184	12.75529
529	6.975285	3.031728	2.30	0.026	.8827987	13.06777
530	9.195285	3.354514	2.74	0.009	2.454137	15.93643
531	6.618031	3.047569	2.17	0.035	.4937105	12.74235
532	5.123717	3.049589	1.68	0.099	-1.004662	11.2521
533	3.463717	2.938449	1.18	0.244	-2.441317	9.368751
534	2.563717	2.751551	0.93	0.356	-2.965731	8.093165
535	3.943717	3.21978	1.22	0.226	-2.526672	10.41411
536	3.403717	2.994428	1.14	0.261	-2.613811	9.421245
537	2.943717	3.122767	0.94	0.350	-3.331718	9.219152
538	. 6479331	3.070176	0.21	0.834	-5.521818	6.817684
539	.8121492	2.910733	0.28	0.781	-5.037188	6.661486
540	3.472149	3.220901	1.08	0.286	-3.000494	9.944792
541	2.760581	3.366259	0.82	0.416	-4.004169	9.525332
542	4.246154	3.07089	1.38	0.173	-1.92503	10.41734
543	1.806008	3.199374	0.56	0.575	-4.623375	8.235391
544	-1.032692	3.055064	-0.34	0.737	-7.172074	5.106689
545	-2.114512	3.038969	-0.70	0.490	-8.221549	3.992525
546	7175014	3.210981	-0.22	0.824	-7.170208	5.735206
547	-1.197063	3.223255	-0.37	0.712	-7.674435	5.28031
548	-3.119467	3.226704	-0.97	0.338	-9.603772	3.364837
549	-2.609475	3.364998	-0.78	0.442	-9.371693	4.152742
550	-2.870215	3.405461	-0.84	0.403	-9.713744	3.973315
551	-2.485462	3.339731	-0.74	0.460	-9.196902	4.225978
552	1.893547	3.419159	0.55	0.582	-4.977511	8.764604
553	.1619788	3.450976	0.05	0.963	-6.773017	7.096975
554	1.641979	3.368407	0.49	0.628	-5.127089	8.411047
555	1.588916	3.699581	0.43	0.669	-5.84567	9.023503
556	2.096894	3.71687	0.56	0.575	-5.372437	9.566224
557	.9768937	3.532344	0.28	0.783	-6.121617	8.075404
558	4631063	3.744938	-0.12	0.902	-7.988841	7.062628
559	.1768937	3.747022	0.05	0.963	-7.353029	7.706816
560	-1.183106	3.762603	-0.31	0.755	-8.744341	6.378128
500	1.103100	3.702003	0.51	0.755	0./44341	0.3/0120

```
561
                     -1.243106
                                  3.819169
                                                -0.33 0.746
                                                                   -8.918013
                                                                                  6.431801
                     -.6231063
                                                -0.16 0.873
                                                                   -8.425306
            562
                                  3.882512
                                                                                  7.179094
                                 3.854453
                                                -0.26 0.800
            563
                     -.9831063
                                                                   -8.728919
                                                                                  6.762706
            564
                     -.9231063
                                    3.81431
                                                -0.24
                                                        0.810
                                                                   -8.588249
                                                                                  6.742036
                                                                                  6.769846
            565
                     -.9231063
                                  3.828149
                                                -0.24 0.810
                                                                   -8.616059
            566
                     -.8031063
                                  3.755721
                                                -0.21 0.832
                                                                   -8.350509
                                                                                  6.744297
                                                -0.23 0.822
-0.21 0.838
            567
                     -.8631063
                                  3.809254
                                                                   -8.518089
                                                                                  6.791876
            568
                    -.7831063
                                   3.81338
                                                                   -8.446381
                                                                                  6.880169
                                                                   -8.18386
                                                                                 6.457647
            569
                     -.8631063
                                  3.642936
                                                -0.24 0.814
                                                -0.14 0.890
0.01 0.992
            570
                    -.5231063
                                  3.756772
                                                                   -8.072623
                                                                                  7.02641
                                                                                  7.742508
            571
                      .0368937
                                  3.834449
                                                0.01
                                                        0.992
                                                                    -7.66872
            572
                                                -0.14 0.893
                     -.5031063
                                  3.707241
                                                                   -7.953087
                                                                                 6.946874
                                                       0.787
            573
                                  3.768944
                     -1.023106
                                                -0.27
                                                                   -8.597083
                                                                                  6.55087
                                   3.742002
                                                -0.32
            574
                     -1.183106
                                                                   -8.702941
                                                                                  6.336729
                                                        0.753
                                                -0.43 0.666
            575
                                                                   -9.011902
                                                                                 5.805689
                     -1.603106
                                  3.686747
            576
                     -.9431063
                                  3.799295
                                                -0.25
                                                       0.805
                                                                   -8.578075
                                                                                  6.691863
            577
                     -1.483106
                                  3.928105
                                                -0.38
                                                        0.707
                                                                   -9.376928
                                                                                 6.410715
                                                -0.38 0.707
            578
                     -1.963106
                                  3.888556
                                                                   -9.777452
                                                                                  5.85124
                                  2.035424
                                               5.70 0.000
                      11.60972
                                                                    7.519387 15.70006
           cons
                     14.463172
         sigma u
         sigma e
                     10.211623
                     .66733537
                                  (fraction of variance due to u i)
  (est4 stored)
108 esttab using labs_OTC.tex, replace b(4) se(4) ar2(4) ///
  > title(Effect of law on number of discovered labs)
  (output written to labs OTC.tex)
109 eststo clear
111
113 *Ex.f)
114
115 gen event time plus100=diff+100 //not possible to create dummy for negative values t
  > herefore \overline{a}dd 1\overline{0}0 to each difference to law inacted
116 label define 1 event_time_plus100 88 "-12" 89 "-11" 90 "-10" 91 "-9" 92 "-8" 93 "-7 > " 94 "-6" 95 "-5" 96"-4" 97 "-3" 98 "-2" 99 "-1" 100 "0" 101 "1" 102 "2" 103 "3" 10 > 4 "4" 105 "5" 106 "6" 107 "7" 108 "8" 109 "9" 110 "10" 111 "11" 112 "12" 113 "13" 11
  > 4 "14" 115 "15" 116 "16" 117 "17" 118 "18" 119 "19" 120 "20" 121 "21" 122 "22" 123 "
  > 23" 124 "24"
117 label value event time plus100 l event time plus100
119 xtreg cap_under 2_oz i.event_date_ym ib88.event_time_plus100 event_time_plus100 if e > vent_time_plus100>87 & event_time_plus100<125, fe vce(cluster state) //dummy 88 is t > he event-time_dummy one year_before the law was enacted. Footnote 24 states that all
  > effects one year before the law was enacted are set to zero
  note: 124.event time plus100 omitted because of collinearity
  note: event time plus100 omitted because of collinearity
  Fixed-effects (within) regression
                                                        Number of obs =
                                                                                  1,834
                                                       Number of groups =
  Group variable: state
                                                                                      50
  R-sq:
                                                        Obs per group:
       within = 0.4390
                                                                       min =
                                                                                       36
       between = 0.2197
                                                                       avg =
                                                                                     36.7
                                                                       max =
       overall = 0.2303
                                                                                       37
                                                        F(49,49)
  corr(u i, Xb) = 0.1235
                                                        Prob > F
```

		(Std.	. Err. ad	justed fo	r <b>50</b> clusters	in state)
		Robust				
cap under 2 oz	Coef.	Std. Err.	t	P> t	[95% Conf.	Intervall
		DCG. BII.				
event date ym						
- 5 <u>2</u> 0	-16.29738	.7490794	-21.76	0.000	-17.80271	-14.79205
521	-12.24708	1.169427	-10.47	0.000	-14.59713	-9.897027
522	-11.88599	.858468	-13.85	0.000	-13.61115	-10.16083
523	-14.32522	.8611779	-16.63	0.000	-16.05583	-12.59462
524	-24.56435	1.229587	-19.98	0.000	-27.0353	-22.0934
525 526	-16.8168 -24.51622	1.141612 2.637459	-14.73 -9.30	0.000 0.000	-19.11095 -29.8164	-14.52264 -19.21605
527	-23.93502	6.131589	-3.90	0.000	-36.25691	-11.61313
528	-16.55307	5.334642	-3.10	0.003	-27.27344	-5.832705
529	-15.69543	5.089142	-3.08	0.003	-25.92245	-5.46842
530	-10.86518	6.090213	-1.78	0.081	-23.10392	1.373561
531	-21.73976	2.790306	-7.79	0.000	-27.34709	-16.13243
532	-19.8805	1.899232	-10.47	0.000	-23.69715	-16.06385
533	-24.58569	2.09065	-11.76	0.000	-28.78701	-20.38438
534	-27.69041	1.455809	-19.02	0.000	-30.61597	-24.76485
535 536	-28.12038 -28.45703	1.946463 1.592127	-14.45 -17.87	0.000 0.000	-32.03194 -31.65653	-24.20881 -25.25753
537	-30.6763	1.236887	-24.80	0.000	-33.16191	-28.19068
538	-32.77511	1.249566	-26.23	0.000	-35.2862	-30.26401
539	-34.91759	1.510599	-23.12	0.000	-37.95325	-31.88192
540	-31.02229	1.45699	-21.29	0.000	-33.95022	-28.09436
541	-32.17488	1.477416	-21.78	0.000	-35.14386	-29.2059
542	-31.0754	1.662858	-18.69	0.000	-34.41704	-27.73376
543	-32.70083	1.488216	-21.97	0.000	-35.69151	-29.71015
544	-36.15309 -37.74636	1.789818	-20.20	0.000	-39.74987	-32.55632 -33.89422
545 546	-37.74636	1.91689 1.647753	-19.69 -22.80	0.000 0.000	-41.59849 -40.87526	-34.25269
547	-37.29572	1.856541	-20.09	0.000	-41.02658	-33.56486
548	-40.1964	2.221462	-18.09	0.000	-44.66059	-35.7322
549	-39.75238	1.972289	-20.16	0.000	-43.71585	-35.78892
550	-40.3059	2.107844	-19.12	0.000	-44.54177	-36.07003
551	-40.00572	1.980757	-20.20	0.000	-43.9862	-36.02524
552	-35.93534	1.730572	-20.77	0.000	-39.41306	-32.45763
553 554	-38.05407	1.816013	-20.95	0.000 0.000	-41.70348	-34.40465
555	-36.62831 -37.88865	1.699615 1.824435	-21.55 -20.77	0.000	-40.04381 -41.55499	-33.2128 -34.22231
556	-37.37112	1.900617	-19.66	0.000	-41.19055	-33.55169
557	-38.18245	1.78866	-21.35	0.000	-41.7769	-34.58801
558	-38.89093	1.86236	-20.88	0.000	-42.63348	-35.14838
559	-38.40147	1.63265	-23.52	0.000	-41.68241	-35.12054
560	-39.66616	1.730973	-22.92	0.000	-43.14468	-36.18764
561	-38.76998	1.781706	-21.76	0.000	-42.35045	-35.1895
562 563	-38.54309	1.55232 1.809681	-24.83 -21.57	0.000	-41.6626	-35.42359
564	-39.03776 -38.25732	1.709303	-21.37	0.000 0.000	-42.67445 -41.69229	-35.40107 -34.82235
565	-39.00403	1.818851	-21.44	0.000	-42.65915	-35.34891
566	-38.52749	1.618287	-23.81	0.000	-41.77956	-35.27542
567	-38.22525	1.556497	-24.56	0.000	-41.35315	-35.09735
568	-37.67933	1.508874	-24.97	0.000	-40.71153	-34.64714
569	-37.41675	1.586931	-23.58	0.000	-40.60581	-34.22769
570	-36.7821	1.358054	-27.08	0.000	-39.51122	-34.05299
571 572	-36.84619 -36.50233	1.373816 1.46729	-26.82 -24.88	0.000 0.000	-39.60698 -39.45096	-34.08541 -33.5537
573	-36.38668	1.378985	-24.88	0.000	-39.15785	-33.61551
574	-37.31162	1.643337	-22.70	0.000	-40.61403	-34.00921
575	-37.24834	1.647841	-22.60	0.000	-40.5598	-33.93688
576	-36.45978	1.573477	-23.17	0.000	-39.6218	-33.29775
577	-35.88088	1.611404	-22.27	0.000	-39.11911	-32.64264
578	-35.88924	1.483565	-24.19	0.000	-38.87058	-32.90791
orront time n1100						
event_time_plus100   -11	1.297376	.7490794	1.73	0.090	207955	2.802708
-11	3.247078	1.169427	2.78	0.090	.8970269	5.59713
-9	2.88599	.858468	3.36	0.002	1.160834	4.611146
-8	2.325225	.8611779	2.70	0.009	.5946229	4.055826
-7	5.564349	1.229587	4.53	0.000	3.093402	8.035297

```
4.816796
                                                4.22
                                                       0.000
               -6
                                  1.141612
                                                                  2.522641
                                                                              7.110951
               -5
                        5.93276
                                 1.172309
                                                5.06
                                                       0.000
                                                                  3.576916
                                                                              8.288604
                                                       0.000
               -4
                       6.472973
                                 1.399271
                                                4.63
                                                                  3.661032
                                                                              9.284915
                                                                   2.50845
               -3
                       4.514278
                                   .9981357
                                                4.52
                                                       0.000
                                                                              6.520107
               -2
                                  1.369078
                        6.00508
                                                4.39
                                                       0.000
                                                                  3.253815
                                                                              8.756346
               -1
                       5.568437
                                  1.382245
                                                4.03
                                                       0.000
                                                                  2.790711
                                                                              8.346163
                0
                        5.69003
                                  1.079154
                                                5.27
                                                       0.000
                                                                  3.521388
                                                                              7.858672
                1
                       4.334244
                                  1.157615
                                                3.74
                                                       0.000
                                                                  2.007929
                                                                              6.660559
                2
                       3.959749
                                  1.076755
                                                3.68
                                                       0.001
                                                                  1.795928
                                                                              6.123569
                3
                       3.197554
                                                       0.005
                                                                  1.020259
                                   1.08346
                                                2.95
                                                                              5.374848
                4
                       3.390276
                                  .7874305
                                                4.31
                                                       0.000
                                                                  1.807875
                                                                              4.972676
                5
                       3.785899
                                  .9070115
                                                4.17
                                                       0.000
                                                                  1.963191
                                                                              5.608607
                6
                       2.848721
                                  1.272052
                                                2.24
                                                       0.030
                                                                  .2924365
                                                                              5.405005
                7
                                                4.34
                       3.897827
                                  .8980411
                                                       0.000
                                                                  2.093146
                                                                              5.702508
                8
                                                                  1.446653
                                                                              7.355196
                       4.400925
                                  1.470097
                                                2.99
                                                       0.004
                9
                       3.043868
                                  1.118166
                                                2.72
                                                       0.009
                                                                  .7968285
                                                                              5.290908
                       4.174278
               10
                                    .969593
                                                4.31
                                                       0.000
                                                                  2.225808
                                                                              6.122748
               11
                       3.802813
                                  .8240612
                                                4.61
                                                       0.000
                                                                    2.1468
                                                                              5.458825
               12
                        3.27865
                                   .843949
                                                3.88
                                                       0.000
                                                                  1.582671
                                                                              4.974629
                                                       0.002
               13
                                  .8071579
                                                3.25
                       2.623984
                                                                  1.001939
                                                                              4.246028
               14
                       2.954773
                                  .7896857
                                                3.74
                                                       0.000
                                                                  1.36784
                                                                              4.541706
                       1.791759
                                                       0.001
                                                                  .7825609
               15
                                  .5021948
                                                3.57
                                                                              2.800958
               16
                       1.734249
                                  .4777004
                                                3.63
                                                       0.001
                                                                 .7742744
                                                                              2.694224
               17
                                  .6132326
                                                                  .4611582
                       1.693495
                                                2.76
                                                       0.008
                                                                              2.925832
                                                                  .3137507
                       1.308527
               18
                                   .4950182
                                                2.64
                                                       0.011
                                                                              2.303303
               19
                       2.140844
                                  .7914404
                                                2.70
                                                       0.009
                                                                 .5503846
                                                                              3.731303
               20
                       1.910476
                                  .6643303
                                                       0.006
                                                                  .5754538
                                                2.88
                                                                              3.245497
               21
                       1.483928
                                  .7212131
                                                2.06
                                                       0.045
                                                                 .0345962
                                                                               2.93326
                                  .6244364
               22
                       .9791207
                                                1.57
                                                       0.123
                                                                 -.2757312
                                                                              2.233972
               23
                        .9874839
                                   .5809307
                                                1.70
                                                       0.096
                                                                   -.17994
                                                                              2.154908
               24
                                  (omitted)
                              0
event time plus100
                              0
                                  (omitted)
                       39.85698
                                    .984524
                                               40.48
                                                       0.000
                                                                  37.87851
                                                                              41.83546
             cons
                      8.9095815
           sigma u
                       4.6261401
           sigma e
               rho
                       .78764848
                                  (fraction of variance due to u i)
```

```
120 coefplot, vertical keep(*.event time plus100) yline(0)
```

121 graph export coefplot cap under 2 oz.pdf, replace (file coefplot\_cap\_under\_2\_oz.pdf written in PDF format)

123 xtreg cap\_2\_8 oz i.event\_date\_ym ib88.event\_time\_plus100 event\_time\_plus100 if even
> t\_time\_plus100>87 & event\_time\_plus100<125, fe vce(cluster state)
note: 124.event\_time\_plus100 omitted because of collinearity</pre>

note: event time plus100 omitted because of collinearity

Fixed-effects (within) regression Group variable: <b>state</b>	Number of obs Number of group		1,834 50
<pre>R-sq:     within = 0.3718     between = 0.1936     overall = 0.2742</pre>	а	in = vg = ax =	36 36.7 37
corr(u_i, Xb) = 0.0670	$\frac{F(45,49)}{\text{Prob} > F}$	= =	

cap_2_8_oz         Coef.         Std. Err.         t         P> t          [95% Conf. Interval]           event_date_ym           520         3.666805         .5529883         6.63         0.000         2.555533         4.778077           521         4.489217         .5780828         8.46         0.000         2.555512         4.283243           522         3.1429377         .4248987         8.07         0.000         2.575512         4.283243           524         2.151153         .689562         1.23         0.003         1.26567         7.74623           526         2.2.461153         .5891010         4.23         0.000         -1.9246         3.77668           527         -1.864811         1.237545         -1.51         0.138         -4.35175         .622127           528         -2.846454         6.697964         -4.25         0.000         -4.19246         -1.500447           529         -1.017708         2.490286         -0.41         0.685         -4.511024         2.860408           529         -1.017708         2.490286         -0.41         0.685         -4.511024         2.860408           529         -1.017708         2.490286         -			(Std	. Err. ad	justed fo	or <b>50</b> clusters	in state)
event_date_ymm			Robust				
S20	cap 2 8 oz	Coef.		t	P> t	[95% Conf.	<pre>Interval]</pre>
S20							
521         4.892217         .5780828         8.46         0.000         3.730516         6.053918           523         1.318897         .628086         1.91         0.062        06683         2.704623           524        6128096         .5414562         -1.13         0.263         -1.700907         .4752873           525         2.451153         .580101         4.23         0.000         -1.85396         3.616909           526         2.454644         .6697964         -4.23         0.000         -4.13246         -1.500447           367         -1.864308         3.24045         -0.41         0.0176         -4.231024         .366709           529         1.017708         2.490286         -0.41         0.685         -6.022125         .366709           530         2.167334         3.279786         0.66         0.512         -4.23642         8.75831           531         -1.8734         1.7522878         1.01708         1.000         -6.293060         1.224873           533         -5.36615         .9183266         -5.54         0.000         -6.932062         1.224634           534         -5.782804         .57229878         -10.99         0.000         -		3 666805	5529883	6 63	0 000	2 555533	4 778077
522							
524	522						
525	523	1.318897	. 689562		0.062	06683	2.704623
526							
527 -1.864811 1.237545 -1.51 0.138 -4.35175 6.221279 528 -8.25308 1.834077 -0.45 0.655 -4.511024 2.860408 529 -1.017708 2.490286 -0.41 0.685 -6.022125 3.986709 530 2.167334 3.279786 0.66 0.512 -4.423648 3.788311 531 -1.89954 1.412533 -1.35 0.185 -4.738546 9.386373 532 -2.537367 1.872156 -1.36 0.182 -4.738546 1.224873 533 -5.086615 9.183268 -5.54 0.000 -6.932062 -3.241168 534 -5.782804 .5729878 -10.09 0.000 -6.932062 -3.241168 535 -4.216415 .5662394 -4.36 0.000 -6.932062 -3.241168 536 -5.336362 .7771758 -6.87 0.000 -6.898156 -3.774569 537 -5.819165 .7970475 -7.30 0.000 -7.86574 -5.172552 539 -6.519148 .6700899 -9.73 0.000 -7.86574 -5.172552 539 -6.557483 .6762012 -9.62 0.000 -7.86574 -1.51252 540 -5.655723 .7587322 -7.45 0.000 -7.86574 -1.512652 540 -5.655723 .7587328 -7.42 0.000 -7.86574 -1.310453 -1.310452 541 -6.378632 .7887328 -7.45 0.000 -7.865742 -4.79157 542 -6.78632 .7887328 -7.84 0.000 -7.865742 -4.79157 542 -8.806888 .8773274 -10.04 0.000 -9.53732 -6.271529 543 -7.90463 .812660 -9.73 0.000 -7.82835 -6.101431 544 -7.912133 .9010371 -8.78 0.000 -9.53732 -6.271529 544 -7.912133 .9010371 -8.78 0.000 -9.53732 -6.271529 545 -8.806888 .8773274 -10.04 0.000 -10.5693 -6.271529 546 -8.836276 .8987212 -9.33 0.000 -10.19032 -6.578228 547 -9.133766 .9747709 -9.37 0.000 -11.16727 -7.03803 550 -9.421855 1.03263 -9.12 0.000 -11.16727 -7.218969 551 -8.874393 .9925793 -9.32 0.000 -10.95313 -6.733415 552 -8.665272 .9613266 -9.91 0.000 -10.55971 -6.88375 553 -8.814182 .8911633 -9.95 0.000 -10.55971 -6.88375 555 -8.84182 .8911633 -9.95 0.000 -10.55971 -6.88375 556 -8.86076 .873669 -10.15 0.000 -10.55971 -6.88375 557 -8.824201 .8849329 -9.97 0.000 -10.61978 -7.03803 556 -8.86076 .873669 -10.15 0.000 -10.61978 -7.03803 556 -8.86076 .873669 -10.15 0.000 -10.55971 -6.83375 557 -8.824201 .8849329 -9.97 0.000 -10.61978 -7.03803 558 -8.81583 .8146256 -10.85 0.000 -10.73059 -7.32451 569 -8.905844 -7.74783 .87474 -10.000 -9.918196 -7.003774 577 -8.608464 .710106 -12.12 0.000 -9.918196 -7.003774 577 -8.608464 .710106 -12.12 0.000 -9							
\$28							
529							
531		-1.017708	2.490286				
532							
533							
534							
535       -4.216415       .9662394       -4.36       0.000       -6.188166       -2.774669         537       -5.819165       .7970475       -7.30       0.000       -7.420892       -4.217438         538       -6.519148       .6700899       -9.73       0.000       -7.865744       -5.172552         540       -5.655723       .7887328       -7.45       0.000       -7.866361       -5.148606         541       -6.378632       .7897499       -8.08       0.000       -7.965694       -4.79157         542       -6.740274       .8763332       -7.990.000       -9.537736       -6.271529         343       -7.904633       .8126609       -9.73       0.000       -9.537736       -6.271529         344       -7.912133       .9910371       -8.78       0.000       -9.53736       -6.271529         345       -8.806858       8773274       -10.04       0.000       -9.722835       -6.101431         345       -8.806858       8773274       -10.04       0.000       -10.56991       -7.43803         346       -8.384276       .8987212       -9.33       0.000       -11.16712       -7.218869         546       -9.137366       .93373012							
537							
538			.7771758		0.000	-6.898156	-3.774569
539							
540							
541       -6.378632       .7897499       -8.08       0.000       -7.956694       -4.79157         542       -6.740274       8.763332       -7.69       0.000       -9.551736       -4.791217         543       -7.904633       .8126609       -9.73       0.000       -9.537736       -6.271529         544       -7.912133       .9010371       -8.78       0.000       -9.722835       -6.101431         545       -8.866858       .8773274       -10.04       0.000       -10.56991       -7.043803         546       -8.384276       .8987212       -9.33       0.000       -10.19032       -6.578228         547       -9.137366       .9747709       -9.37       0.000       -11.09624       -7.178491         549       -8.975307       .9337012       -9.61       0.000       -11.09624       -7.178491         550       -9.421855       1.03263       -9.12       0.000       -11.497       -7.346707         551       -9.9351       .9939022       -9.35       0.000       -11.497       -7.346707         552       -8.665272       .9613256       -9.01       0.000       -10.59713       -6.733415         554       -8.11412       .8911633 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
542							
544         -7.912133         .9010371         -8.78         0.000         -9.722835         -6.1014310           545         -8.806858         .8773274         -10.04         0.000         -10.56991         -7.043801           546         -8.384276         .8987212         -9.33         0.000         -10.19032         -6.578228           547         -9.193047         .9823358         -9.36         0.000         -11.16712         -7.218869           549         -8.975307         .9337012         -9.61         0.000         -10.85165         -7.098964           550         -9.29351         .9939022         -9.35         0.000         -11.29083         -7.296189           551         -9.29351         .9939022         -9.35         0.000         -10.59713         -6.733415           553         -8.87993         .9527593         -9.32         0.000         -10.59713         -6.964451           554         -8.117398         .9142768         -9.53         0.000         -10.55471         -6.880089           555         -8.814182         .8911633         -9.89         0.000         -10.60544         -7.045861           5556         -8.814182         .8916669         -10.15							
\$45							
546       -8.384276       .8987212       -9.33       0.000       -10.19032       -6.578228         547       -9.193047       .9823358       -9.36       0.000       -11.16712       -7.218969         548       -9.137366       .9747709       -9.37       0.000       -11.09624       -7.178491         549       -8.975307       .9337012       -9.61       0.000       -10.85165       -7.099646         550       -9.421855       1.03263       -9.12       0.000       -11.497       -7.346707         551       -9.29351       .9939022       -9.35       0.000       -11.29083       -7.296189         552       -8.665272       .9613256       -9.01       0.000       -10.59713       -6.733415         553       -8.879093       .9527593       -9.32       0.000       -10.55471       -6.84451         554       -8.14182       .8911633       -9.89       0.000       -10.60504       -7.023323         556       -8.844076       .8736669       -10.15       0.000       -10.61978       -7.108377         557       -8.824201       .8849329       -9.97       0.000       -10.47863       -7.204532         558       -8.841583       .816256							
547         -9.193047         .9823358         -9.36         0.000         -11.16712         -7.218869           548         -9.137366         .9747709         -9.37         0.000         -11.09624         -7.178491           549         -8.975307         .9337012         -9.61         0.000         -10.85165         -7.098964           550         -9.421855         1.03263         -9.12         0.000         -11.29083         -7.296189           551         -9.29351         .9939022         -9.35         0.000         -11.29083         -7.296189           552         -8.665272         .9613256         -9.01         0.000         -10.59713         -6.733415           554         -8.717398         .912768         -9.53         0.000         -10.55471         -6.880089           555         -8.8414182         .8911633         -9.89         0.000         -10.65541         -6.880089           557         -8.824201         .8849329         -9.97         0.000         -10.60254         -7.045861           559         -8.865688         .8576679         -10.34         0.000         -10.47863         -7.204532           561         -9.02758         .8474474         -10.65         <							
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564		-9.045089	.8269072	-10.94	0.000	-10.70682	
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-10							
-9    4293774     .4248987     -1.01     0.317     -1.283243     .4244884       -8     .6811032     .689562     0.99     0.328    7046235     2.06683							
-8 .6811032 .689562 0.99 0.3287046235 2.06683							

```
124 coefplot, vertical keep(*.event time plus100) yline(0)
```

125 graph export coefplot\_cap\_2\_8\_oz.pdf, replace (file coefplot\_cap\_2\_8\_oz.pdf written in PDF format)

127 xtreg cap\_over\_9 oz i.event\_date\_ym ib88.event\_time\_plus100 event\_time\_plus100 if e > vent\_time\_plus100>87 & event\_time\_plus100<125, fe vce(cluster state) note: 124.event\_time\_plus100 omitted because of collinearity

note: event time plus100 omitted because of collinearity

Fixed-effects (within) regression Group variable: <b>state</b>	Number of obs Number of group:		1,834 50
R-sq:     within = 0.2245     between = 0.2403     overall = 0.2125	a	in = vg = ax =	36 36.7 37
corr(u_i, Xb) = 0.0935	$\frac{F(35,49)}{Prob} > F$	= =	

		(Sta.	Err. ad	ljusted for	50 clusters	in state)
		Robust				
cap_over_9_oz	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
event date ym						
520	-1.07968	.2435738	-4.43	0.000	-1.56916	5901998
521	-4.122516	.3309689	-12.46	0.000	-4.787623	-3.457409
522	-6.240885	.3620681	-17.24	0.000	-6.968488	-5.513281
523	-4.355965	. 4233873	-10.29	0.000	-5.206794	-3.505136
524	-3.833289	. 6272242	-6.11	0.000	-5.093743	-2.572835
525	-2.939571	.7444138	-3.95	0.000	-4.435526	-1.443615
526	-4.411842	.7657487	-5.76	0.000	-5.950672	-2.873012
527	-3.439874	1.596797	-2.15	0.036	-6.648758	2309895
528	-2.615993	.7753784	-3.37	0.001	-4.174174	-1.057812
529	-3.559921	. 4037677	-8.82	0.000	-4.371322	-2.74852
530	-2.855232	.5276494	-5.41	0.000	-3.915584	-1.794881
531	-3.398464	. 9889454	-3.44	0.001	-5.385824	-1.411104
532	-2.578091	1.712041	-1.51	0.139	-6.018566	.862384
533	-3.27522	.6547939	-5.00	0.000	-4.591078	-1.959362
			-5.00			
534	-3.849769	.5591709	-6.88	0.000	-4.973465	-2.726073
535	-3.654697	. 4750508	-7.69	0.000	-4.609347	-2.700046
536	-4.325507	.3576163	-12.10	0.000	-5.044163	-3.60685
537	-4.677671	.4370632	-10.70	0.000	-5.555982	-3.79936
538	-5.111194	. 4266985	-11.98	0.000	-5.968677	-4.253712
539	-5.163216	. 6244437	-8.27	0.000	-6.418083	-3.90835
540	-5.502581	.7153702	-7.69	0.000	-6.940171	-4.064991
541	-5.274042	.7265887	-7.26	0.000	-6.734176	-3.813907
542	-5.14314	.7481271	-6.87	0.000	-6.646557	-3.639722
543	-5.531665	.4804013	-11.51	0.000	-6.497068	-4.566263
544	-5.544515	.5157301	-10.75	0.000	-6.580914	-4.508117
545	-5.469483	.6077735	-9.00	0.000	-6.69085	-4.248117
546	-5.581909	.6968257	-8.01	0.000	-6.982233	-4.181585
547	-5.770622	. 6530972	-8.84	0.000	-7.08307	-4.458174
548	-5.967589	.7194176	-8.30	0.000	-7.413313	-4.521865
549	-5.916538	.7029528	-8.42	0.000	-7.329174	-4.503901
550	-6.023841	.7133869	-8.44	0.000	-7.457446	-4.590237
551	-6.143756	.7410745	-8.29	0.000	-7.633001	-4.654511
552	-5.929895	. 6865522	-8.64	0.000	-7.309573	-4.550216
553	-5.781787	.6633981	-8.72	0.000	-7.114936	-4.448639
554	-5.661776	. 6380903	-8.87	0.000	-6.944066	-4.379485
555	-5.471776	.6417107	-8.53	0.000	-6.761342	-4.18221
556	-5.546124	. 6011934	-9.23	0.000	-6.754267	-4.337981
557	-5.79875	.5763418	-10.06	0.000	-6.956953	-4.640548
558	-5.854327	.5521908	-10.60	0.000	-6.963996	-4.744658
559	-5.666819	.5410155	-10.47	0.000	-6.754031	-4.579608
560	-5.78014	.5408983	-10.69	0.000	-6.867116	-4.693165
		.5127839	-11.05	0.000	-6.697355	-4.6364
561	-5.666877					
562	-5.563103	. 4920906	-11.31	0.000	-6.551996	-4.57421
563	-5.629379	.3834185	-14.68	0.000	-6.399888	-4.858871
564	-5.624311	. 3795428	-14.82	0.000	-6.38703	-4.861591
565	-5.507292	.3621274	-15.21	0.000	-6.235015	-4.77957
566	-5.551345	.3794867	-14.63	0.000	-6.313952	-4.788738
567	-5.507469	.3256542	-16.91	0.000	-6.161896	-4.853042
568	-5.496356	.3449867	-15.93	0.000	-6.189633	-4.803079
569	-5.368401	.3101905	-17.31	0.000	-5.991753	-4.74505
570	-5.296344	.3172636	-16.69	0.000	-5.93391	-4.658779
571	-5.371029	.3113748	-17.25	0.000	-5.996761	-4.745298
572	-5.533071	.3361593	-16.46	0.000	-6.208608	-4.857533
573	-5.445351	.3257132	-16.72	0.000	-6.099896	-4.790806
574	-5.411721	.3124145	-17.32	0.000	-6.039541	-4.7839
575	-5.472211	.2873933	-19.04	0.000	-6.04975	-4.894673
576	-5.471274		-19.62	0.000		
		.2788603			-6.031665	-4.910883
577	-5.344783	.2812925	-19.00	0.000	-5.910061	-4.779504
578	-5.222266	.2550023	-20.48	0.000	-5.734713	-4.70982
event time plus100						
-11	.0796797	.2435738	0.33	0.745	4098002	.5691595
-10	.1225157	.3309689	0.37	0.713	5425911	.7876225
-9	.2408845	.3620681	0.67	0.509	4867186	.9684876
-8	.3559651	. 4233873	0.84	0.405	4948636	1.206794
-7 I	.8332889	. 6272242	1.33	0.190	4271653	2.093743

128 coefplot, vertical keep(\*.event\_time\_plus100) yline(0)

129 graph export coefplot\_cap\_over\_9\_oz.pdf, replace (file coefplot\_cap\_over\_9\_oz.pdf written in PDF format)

130 131