Causal Inference Rough Draft

Patrick Chase

4/21/2021

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##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
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## ****************
##  searching for synthetic control unit
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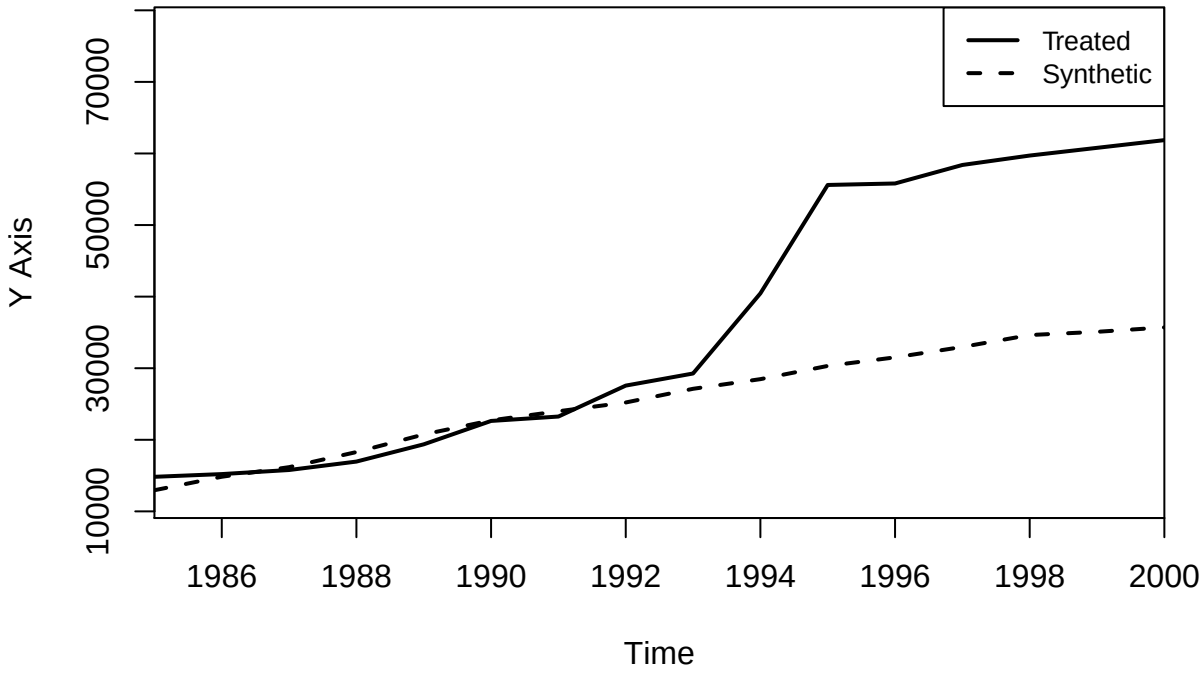
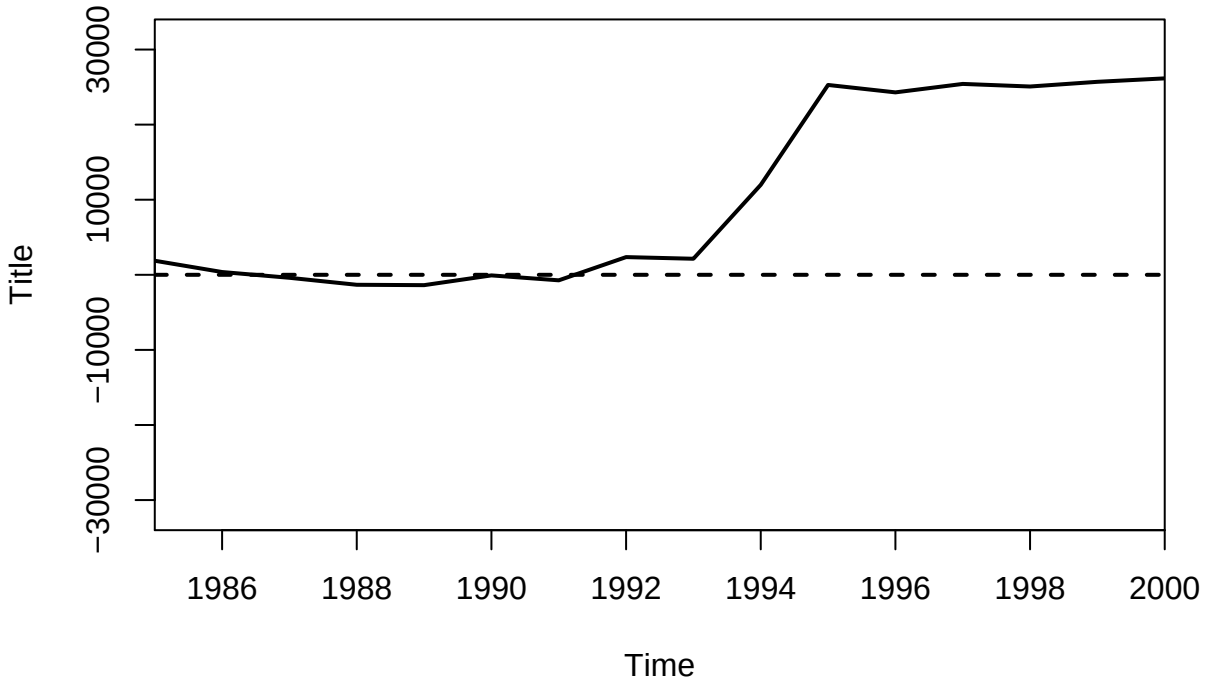
##
## MSPE (LOSS V): 2015107
##
## solution.v:
##  0.07154915 0.02736536 0.8923763 5.5e-09 2.42e-08 0.008709159 7.6e-09
##
## solution.w:
##  3.1624e-06 2.409e-07 2.1267e-06 1.84496e-05 0.3414498 5.67e-07 2.118e-07 2.353e-07 5.36e-08 0.29813
```



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##
## MSPE (LOSS V): 45681.9
##
## solution.v:
##  0.06748428 0.02474086 0.9018141 6e-10 0.0006277061 0.003742051 0.001591043
##
## solution.w:
##  0.003778043 0.006258287 0.01045484 0.005359059 0.004762802 0.003254921 0.004258525 0.002471576 0.005
##
##
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##
## MSPE (LOSS V): 925.6949
##
## solution.v:
##  3.51993e-05 1.72857e-05 0.9211308 0.0009428709 0.07776696 9.10773e-05 1.58052e-05
##
## solution.w:
##  0.001018933 0.002480651 0.001853742 0.0002135165 0.003078122 0.001750996 0.002702807 0.001084662 0.0
##
##
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## ****************
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##
## MSPE (LOSS V): 3236.389
##
## solution.v:
##  0.2079775 0.001224239 0.09466852 0.009459801 1.6498e-06 0.6783835 0.008284771
##
## solution.w:
##  0.004851576 0.01182961 0.00659204 0.01033548 0.01230679 0.009062937 0.006539111 0.002090738 0.01021
##
##
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##
## MSPE (LOSS V): 25979.06
##
## solution.v:
##  0.003895003 0.04588188 0.8024623 0.04032648 0.007366592 1.42e-08 0.1000678
##
## solution.w:
##  0.004231755 0.0004704427 0.00141006 0.001295936 0.001027389 0.0005427843 0.0006560551 0.0002817262 0
##
##
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##
## MSPE (LOSS V): 19104707
##
## solution.v:
##  2.2e-09 5.27e-08 0.9999992 9.55e-08 3.866e-07 1.813e-07 3.28e-08
##
## solution.w:
##  7.4243e-06 4.495e-07 1.4097e-06 2.2791e-06 1.0572e-06 2.8307e-06 1.3474e-06 7.3115e-06 6.90558e-05 1
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##
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##  searching for synthetic control unit
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##
## MSPE (LOSS V): 37132.83
##
## solution.v:
##  0.0001039003 0.0001977963 0.9976114 0.0001417537 0.0003614102 0.00129594 0.0002878482
##
## solution.w:
##  0.00594833 0.01541839 0.01187003 0.009416502 0.001758768 0.00992062 0.01161867 0.006156171 0.002743
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 44280.98
##
## solution.v:
##  0.008668802 0.0001534973 0.8385697 5.12961e-05 0.1288274 0.02285984 0.0008694664
##
## solution.w:
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##  0.002672897 0.004719709 0.002439128 0.002142788 0.003208395 0.003066781 0.01984298 0.02553507 0.004
##
##
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##
## MSPE (LOSS V): 1286.642
##
## solution.v:
##  4.18e-07 0.0009250228 0.9508513 1.5986e-06 0.04714404 0.0006606376 0.0004169999
##
## solution.w:
##  0.008076336 0.3338611 0.008112692 0.012855 0.001848382 0.007233341 0.00731698 0.04877718 0.00269098
##
##
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##
## MSPE (LOSS V): 205449
##
## solution.v:
##  0.01992648 0.006677554 0.9232715 0.04938071 0.0007323313 2.93e-08 1.14234e-05
##
## solution.w:
##  0.0005180406 0.001083028 0.0004833246 0.0004720707 0.1725198 0.000493421 0.000621851 0.0005175342 0
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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## MSPE (LOSS V): 980408
##
## solution.v:
##  7.92874e-05 6.65509e-05 0.8985833 3.3634e-06 0.05480646 0.0363684 0.0100926
##
## solution.w:
##  0.005020389 0.002525016 0.00315159 0.003256167 0.3818703 0.003089687 0.003860919 0.003225624 1.3060
##
##
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##
## MSPE (LOSS V): 45194.29
##
## solution.v:
##  0.001710019 0.238809 0.4804971 0.173618 0.006220177 0.02677674 0.07236894
##
## solution.w:
##  0.01319226 0.001547582 0.00265495 0.004507328 0.05072209 0.002727073 0.002067515 0.002943628 0.0088
##
##
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##
## MSPE (LOSS V): 2586.81
##
## solution.v:
##  0.01668576 1.9e-08 0.9598762 0.0227824 0.0003138415 5.54448e-05 0.000286366
##
## solution.w:
##  0.0005973371 0.004765495 0.001602056 0.001091643 0.0001331156 0.002679988 0.001439169 0.002095802 0
##
##
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## MSPE (LOSS V): 6662.461
##
## solution.v:
##  0.002382444 0.001882359 0.9578672 0.00231003 0.001176087 0.03438186 3.6e-09
##
## solution.w:
##  0.0002637587 0.0005173882 0.0006213698 0.0004982069 5.08909e-05 0.0006774718 0.0004073993 0.0005242
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 1262119
##
## solution.v:
##  8.891e-07 2.7453e-06 0.9809287 4.58889e-05 0.003575038 0.01167174 0.003774991
##
## solution.w:
##  0.01421448 0.007718717 0.0076793 0.009106612 0.2861591 0.007474476 0.01083307 0.00876527 4.2644e-06
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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## MSPE (LOSS V): 38719.88
##
## solution.v:
##  0.1238556 0.06540654 0.01761527 0.07776727 0.5622225 0.1523723 0.0007605242
##
## solution.w:
##  0.02199277 0.01196358 0.003756047 0.007805154 0.002398481 0.004135395 0.00680053 0.00510454 0.00088
##
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##
## MSPE (LOSS V): 1763.756
##
## solution.v:
##  0.0007293111 0.0124726 0.8602986 0.002834 0.01545234 0.1034213 0.004791873
##
## solution.w:
##  0.002753611 0.007282699 0.005143106 0.004174658 0.001137933 0.007144647 0.006442134 0.004016352 0.0
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 57441.34
##
## solution.v:
##  0.001672834 0.01702462 0.9057488 0.0003452465 0.02682204 0.04686857 0.001517878
##
## solution.w:
##  0.005828398 0.01767183 0.007801074 0.008713561 0.001966771 0.0115865 0.009258731 0.01206762 0.00391
##
##
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## MSPE (LOSS V): 4757.734
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## solution.v:
##  0.04796748 0.06629775 0.5275302 0.1379317 0.1140736 0.08905736 0.0171419
##
## solution.w:
##  2.72575e-05 0.002528601 0.002505137 0.2426277 0.003616502 0.003084292 0.003963964 0.002196975 0.000
##
##
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##
## MSPE (LOSS V): 624688.4
##
## solution.v:
##  0.003493718 0.02117972 0.9241462 0.0127485 0.002162474 0.006929816 0.02933957
##
## solution.w:
##  0.0001822565 0.0005953041 0.0006794355 0.0003883089 0.1734588 0.0005414281 0.0005231972 0.000652646
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 10597.27
##
## solution.v:
##  0.0002750058 0.01302768 0.9343017 0.0003581923 0.05076141 0.0008416242 0.0004344019
##
## solution.w:
##  0.0003503615 0.001763456 0.0008942442 0.0006586444 7.11569e-05 0.001189126 0.0006171673 0.000925201
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 245381.9
##
## solution.v:
##  8.727e-07 4.41491e-05 0.9241187 0.02097808 0.001954459 0.05214937 0.0007543959
##
## solution.w:
##  0.06659584 0.003415958 0.003562541 0.006945207 0.03769921 0.004220193 0.007229748 0.005314559 0.123
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 23397.73
##
## solution.v:
##  0.000199711 7.28307e-05 0.9033441 0.0005361897 0.09434512 0.00150024 1.7558e-06
##
## solution.w:
##  0.007007177 0.01953819 0.0129471 0.009814025 0.003257637 0.01092317 0.01443427 0.01344772 0.0593980
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##  searching for synthetic control unit
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##
## MSPE (LOSS V): 176142.9
##
## solution.v:
##  0.3380236 0.02773438 0.3156696 0.1814824 0.02868618 0.05961221 0.04879165
##
## solution.w:
##  0.004832337 0.002812985 0.002760879 0.004247447 0.3884419 0.002678742 0.003309032 0.003147254 0.000
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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## MSPE (LOSS V): 180369.2
##
## solution.v:
##  0.141637 0.1449429 0.1449998 0.08791047 0.1549178 0.1844985 0.1410935
##
## solution.w:
##  0.0009260172 0.1872631 0.001613415 0.002104301 0.000770236 0.003843658 0.1494553 0.000703082 0.0002
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##  searching for synthetic control unit
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##
## MSPE (LOSS V): 35075.46
##
## solution.v:
##  0.008878273 0.01048457 0.902179 0.06240766 0.01244945 0.0003711498 0.003229878
##
## solution.w:
##  1.0697e-06 5.84424e-05 7.93377e-05 1.23271e-05 6.3e-09 2.94071e-05 1.52796e-05 4.13294e-05 0.000106
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 84897.33
##
## solution.v:
##  0.03380432 0.002130326 0.9018343 1.6841e-06 0.03566325 0.02656545 7.131e-07
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##
## solution.w:
##  0.02395773 0.01624859 0.01843354 0.02639601 0.01348942 0.0161978 0.01408465 0.0143822 0.008519448 0
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 20583.52
##
## solution.v:
##  0.000580749 0.00651237 0.984594 0.0001149397 0.0006913981 0.001254095 0.006252453
##
## solution.w:
##  0.0005905921 0.001212576 0.001442245 0.001130387 0.0001344706 0.001563486 0.0008901463 0.001257231 0
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##  searching for synthetic control unit
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##
## MSPE (LOSS V): 1316.787
##
## solution.v:
##  3.6452e-06 8.61288e-05 0.9160864 0.003896324 0.05780093 0.02191738 0.0002091582
##
## solution.w:
##  0.00280608 0.1045438 0.003420925 0.006255447 0.0004591329 0.004392662 0.00382667 0.008737319 0.0013
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 12549.95
##
## solution.v:
##  0.5907897 0.000969298 0.007389128 0.04301344 0.3210779 0.03675699 3.562e-06
##
## solution.w:
##  4.50499e-05 1.3886e-05 4.8943e-06 3.77967e-05 1.55837e-05 7.5115e-06 2.1364e-06 1.31266e-05 0.110228
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##  searching for synthetic control unit
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##
## MSPE (LOSS V): 3025.232
##
## solution.v:
##  0.001736981 8.6e-09 0.9889157 0.0001910801 0.001219228 0.00782371 0.0001132526
##
## solution.w:
##  0.0003382916 0.006373175 0.000737792 0.0004040299 8.20342e-05 0.0008996359 0.0009805821 0.001400651
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 159587.2
##
## solution.v:
##  0.01041917 0.008771116 0.2227479 0.0001332373 0.1736237 0.01332857 0.5709762
##
## solution.w:
##  0.003365628 0.00725243 0.005713879 0.003425401 0.005278583 0.00695291 0.2656624 0.008143871 0.11589
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##  searching for synthetic control unit
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##
## MSPE (LOSS V): 544.2009
##
## solution.v:
##  3.708e-05 3.8461e-06 0.9317252 0.02520996 0.04272788 2.459e-07 0.0002957641
##
## solution.w:
##  0.0009377417 0.003614332 0.002403037 0.001776154 0.0002032708 0.002808173 0.001478805 0.002382915 0
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 2731312
##
## solution.v:
##  0.00985594 1.6174e-06 0.9541101 0.0004060953 0.0003601286 5.1232e-06 0.03526095
##
## solution.w:
##  0.004252693 0.0019419 0.002399008 0.00271068 0.6363194 0.002309247 0.003046515 0.00231933 0.0065128
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##  searching for synthetic control unit
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##
## MSPE (LOSS V): 1143376
##
## solution.v:
##  0.02247188 0.0136693 0.5397368 0.03853837 0.008488203 0.373041 0.004054479
##
## solution.w:
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##  0.2684295 0.0008906615 0.001295758 0.003226567 0.001494969 0.00144316 0.001207032 0.001764615 0.0006
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##  searching for synthetic control unit
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##
## MSPE (LOSS V): 6715.951
##
## solution.v:
##  0.00356619 0.0134338 0.9229588 0.008551692 0.03322462 0.01536293 0.002901993
##
## solution.w:
##  0.0003179928 0.0001768452 0.0005179484 0.0005250436 7.14783e-05 0.0003421704 0.0002892029 0.0004177
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##  searching for synthetic control unit
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##
## MSPE (LOSS V): 612070.1
##
## solution.v:
##  0.1034466 0.07428757 0.540267 0.05437652 2.587e-07 0.0785258 0.1490963
##
## solution.w:
##  0.003204827 0.001040364 0.00222019 0.003431337 0.1987251 0.003342212 0.003116932 0.002114183 0.0004
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##  searching for synthetic control unit
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## MSPE (LOSS V): 14000.37
##
## solution.v:
##  0.01901043 0.06625127 0.7864408 0.01980585 0.07927661 0.02191293 0.007302137
##
## solution.w:
##  0.007753601 0.002701175 0.004148738 0.1894915 2.91861e-05 0.005366127 0.004082213 0.003429714 0.002
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
##
##
## *****************
##  searching for synthetic control unit
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##
## MSPE (LOSS V): 6687.111
##
## solution.v:
##  0.04393433 0.0001210801 0.9087114 8.14192e-05 0.04579166 0.001166503 0.0001936546
##
## solution.w:
##  0.002486223 0.003813578 0.007493113 0.004374486 0.0007574203 0.009679497 0.004301748 0.004696804 0.0
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 52495.68
##
## solution.v:
##  0.0008299013 1.9128e-06 0.9096274 0.08160382 0.0005305276 3.7e-09 0.007406465
##
## solution.w:
##  0.005870256 0.003432123 0.004009431 0.004542211 0.09151857 0.005067839 0.00694901 0.004078806 0.003
##
##
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## MSPE (LOSS V): 7692.122
##
## solution.v:
##  3.1188e-06 0.0003667171 0.9809305 0.008118642 0.001271558 0.005801673 0.003507781
##
## solution.w:
##  0.002480067 0.006349235 0.005717118 0.004010855 0.0006731424 0.007682271 0.004947549 0.004897824 0.0
##
##
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##
## MSPE (LOSS V): 49819.01
##
## solution.v:
##  0.06914471 4.1431e-06 0.8853913 0.007312845 0.02948518 0.002033158 0.006628691
##
## solution.w:
##  0.00564791 0.005963178 0.004646188 0.003103529 4.03738e-05 0.00390182 0.004635229 0.007617135 0.032
##
##
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## MSPE (LOSS V): 5567.963
##
## solution.v:
##  0.01107969 0.006980587 0.9286151 0.0001107806 0.02742498 0.02551555 0.0002732746
##
## solution.w:
##  0.0003968227 0.004063163 0.0007938064 0.000737543 7.65608e-05 0.00087535 0.0006403528 0.0008034418 0
##
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##
## MSPE (LOSS V): 76590.09
##
## solution.v:
##  0.09461705 0.01024031 0.7581096 0.07588908 0.01815256 0.01832825 0.02466314
##
## solution.w:
##  0.0285007 0.004291338 0.004928821 0.6160347 0.004109356 0.008096369 0.008941259 0.005523879 0.00407
##
##
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##
## MSPE (LOSS V): 149.5132
##
## solution.v:
##  0.1304244 0.1499281 0.2247498 4.2346e-06 0.06558226 0.2182843 0.2110269
##
## solution.w:
##  0.0007739735 0.0002895349 0.0002449714 0.0001998477 0.0004267314 0.0002638066 0.0003280554 0.000516
##
##
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## MSPE (LOSS V): 12886.62
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## solution.v:
##  0.001754592 0.03214742 0.8904965 0.0009785042 0.05666216 0.01371731 0.00424349
##
## solution.w:
##  0.000234582 0.001240098 0.0005865463 0.0004139667 6.38667e-05 0.0007424522 0.0004041516 0.000606100
##
##
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##
## MSPE (LOSS V): 48331.25
##
## solution.v:
##  0.03430066 0.04301534 0.8503724 0.03738024 0.03160716 0.001243822 0.002080419
##
## solution.w:
##  0.001490586 0.0005907524 0.0018066 0.001350019 1.2592e-05 0.0018832 0.2043457 0.001816299 0.0007032
##
##
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##
## MSPE (LOSS V): 15634.17
##
## solution.v:
##  2.2e-09 0.000139339 0.9525549 0.04685461 4.11e-07 2.1679e-06 0.000448564
##
## solution.w:
##  0.006277327 0.004124494 0.01062354 0.01030816 0.001930802 0.01500427 0.01061242 0.01108008 0.005644
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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## MSPE (LOSS V): 1406.102
##
## solution.v:
##  1.92658e-05 0.01067273 0.9195942 0.001279275 0.06739488 2.97319e-05 0.00100988
##
## solution.w:
##  0.0007098169 4.85529e-05 0.0005247747 0.00226046 0.0001111472 0.0002169585 0.0001583767 0.000176906
##
##
## X1, X0, Z1, Z0 all come directly from dataprep object.
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##
## MSPE (LOSS V): 27612.6
##
## solution.v:
##  0.1713258 0.001840659 0.2764761 0.005266829 0.1432246 0.3174792 0.08438671
##
## solution.w:
##  0.009341885 0.003088688 0.00369473 0.006866062 0.002697744 0.003077437 1.75308e-05 0.006921377 0.00
##
##
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##
## MSPE (LOSS V): 5708.693
##
## solution.v:
##  0.01213575 0.0273077 0.9032257 0.001480612 0.0003777313 0.05486454 0.0006079395
##
## solution.w:
##  0.0002469333 0.1126815 0.0006024132 0.0004261608 6.63722e-05 0.0007766454 0.000518369 0.0005303056
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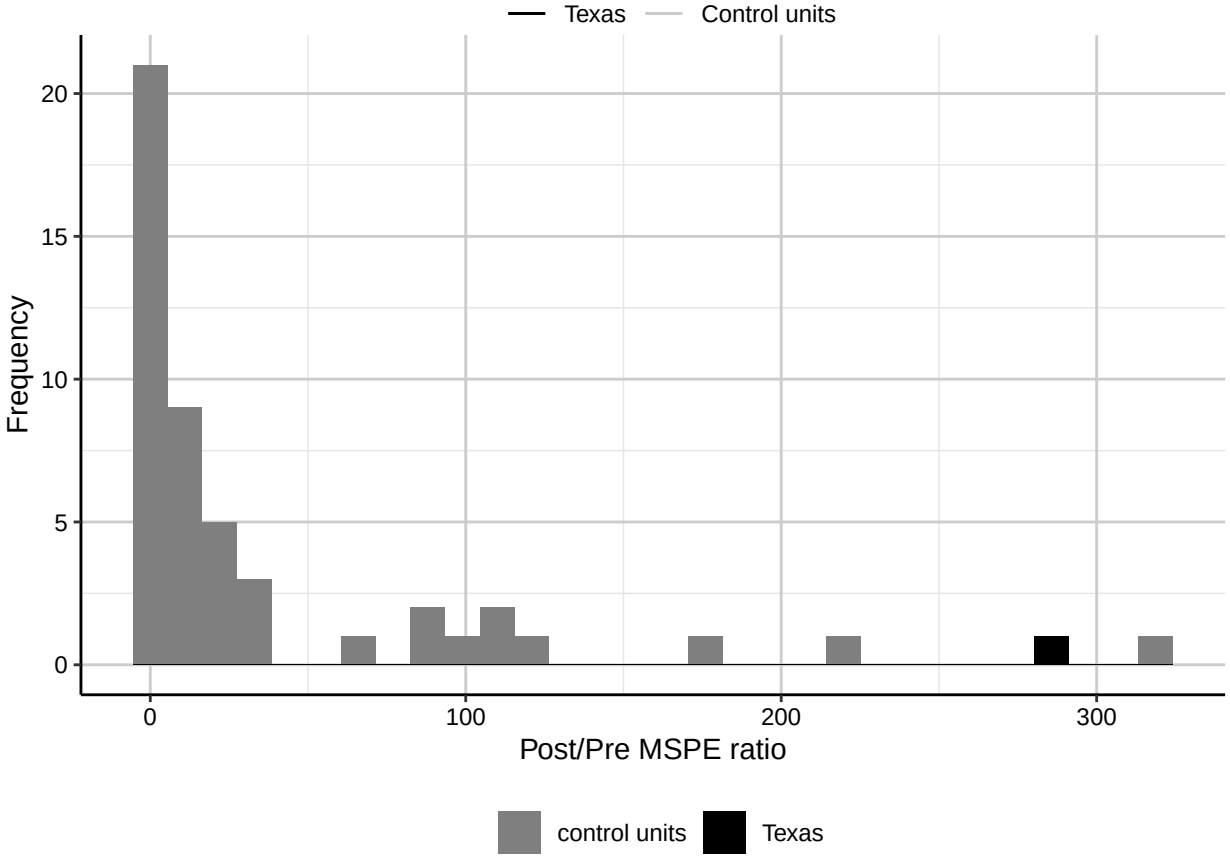
40000
30000
20000
10000
0
−10000
1985
1990
1995
2000
Texas
Control units


20
15
10
5
0
Frequency
0
100
200
300
Post/Pre MSPE ratio
control units
Texas