



```

name: <unnamed>
log: /home/elven/Documents/College/metrics_project/synth/synth_output.smcl
log type: smcl
opened on: 16 May 2022, 00:32:09

```

```

1 .
2 . allsynth dose1pct repvotes2020pct black fullcollege cases_per_capita whiteevangelica
> l catholic poverty medfamilinc pop0to4pct pop5to9pct pop10to14pct pop15to19pct pop60
> to64pct pop65to69pct pop70to74pct pop75to79pct pop80to84pct pop85abovepct, trunit(7)
> trperiod(40) bcorrect(merge) gapfigure(bcorrect, save(synthcontrolresults_dose1_gph
> .svg, replace)) keep(synthcontrolresults_dose1, replace) pvalues

```

Identifying donor pool...

Bias-correcting the plain vanilla -synth- estimate for statecode 7

Synthetic Control Method for Comparative Case Studies

First Step: Data Setup

Data Setup successful

```

Treated Unit: CO
Control Units: AL, AZ, DC, FL, GA, IA, ID, IN, KS, MS, MT, ND, NE, NH,
OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, WY

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Dependent Variable: dose1pct
MSPE minimized for periods: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
Results obtained for periods: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59
60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76

```

```

Predictors: repvotes2020pct black fullcollege cases_per_capita
whiteevangelical catholic poverty medfamilinc pop0to4pct
pop5to9pct pop10to14pct pop15to19pct pop60to64pct
pop65to69pct pop70to74pct pop75to79pct pop80to84pct
pop85abovepct

```

```

Unless period is specified
predictors are averaged over: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

```

Second Step: Run Optimization

Optimization done

Third Step: Obtain Results

Loss: Root Mean Squared Prediction Error

RMSPE	2.067636
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Unit Weights:

Co_No	Unit_Weight
AL	0
AZ	0
DC	.246
FL	0
GA	0
IA	0
ID	0
IN	0
KS	0
MS	0
MT	0
ND	0
NE	0
NH	.254
OK	0
PA	0
RI	0
SC	0
SD	0
TN	0
TX	.304
VA	0
VT	0
WI	0
WY	.196

Predictor Balance:

	Treated	Synthetic
repvotes2020pct	42.1467	42.35994
black	4.635333	16.18293
fullcollege	41.00235	38.40863
cases_per_capita	.0402105	.0358993
whiteevangelical	16.41762	13.26409
catholic	18.18784	20.01272
poverty	9.429272	11.37261
medfamilinc	93187.19	93582.95
pop0to4pct	5.752328	6.025008
pop5to9pct	6.012807	6.028221
pop10to14pct	6.308905	5.947039
pop15to19pct	6.353192	6.219125
pop60to64pct	6.057702	6.119456
pop65to69pct	5.157971	5.089638
pop70to74pct	3.932786	3.94159
pop75to79pct	2.469836	2.611832
pop80to84pct	1.541385	1.656124
pop85abovepct	1.565145	1.793243

Estimating synthetic controls using in-space placebo treatments for treated unit state
> code == 7. This could take awhile...

```

1 of 25 (donor pool unit statecode == 2 for treated unit statecode == 7)
2 of 25 (donor pool unit statecode == 5 for treated unit statecode == 7)
3 of 25 (donor pool unit statecode == 9 for treated unit statecode == 7)
4 of 25 (donor pool unit statecode == 11 for treated unit statecode == 7)
5 of 25 (donor pool unit statecode == 13 for treated unit statecode == 7)
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7 of 25 (donor pool unit statecode == 17 for treated unit statecode == 7)
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9 of 25 (donor pool unit statecode == 20 for treated unit statecode == 7)
10 of 25 (donor pool unit statecode == 31 for treated unit statecode == 7)
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13 of 25 (donor pool unit statecode == 35 for treated unit statecode == 7)

```

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14 of 25 (donor pool unit statecode == 36 for treated unit statecode == 7)
15 of 25 (donor pool unit statecode == 42 for treated unit statecode == 7)
16 of 25 (donor pool unit statecode == 44 for treated unit statecode == 7)
17 of 25 (donor pool unit statecode == 47 for treated unit statecode == 7)
18 of 25 (donor pool unit statecode == 48 for treated unit statecode == 7)
19 of 25 (donor pool unit statecode == 49 for treated unit statecode == 7)
20 of 25 (donor pool unit statecode == 50 for treated unit statecode == 7)
21 of 25 (donor pool unit statecode == 51 for treated unit statecode == 7)
22 of 25 (donor pool unit statecode == 54 for treated unit statecode == 7)
23 of 25 (donor pool unit statecode == 56 for treated unit statecode == 7)
24 of 25 (donor pool unit statecode == 58 for treated unit statecode == 7)
25 of 25 (donor pool unit statecode == 60 for treated unit statecode == 7)

```

Saving results...

(1,040 missing values generated)

(1,040 missing values generated)

Combining data files

(1,925 observations deleted)

Treated unit (statecode == 7) results:

> k	statec-e p	t p_bc	gap N	gap_bc unique_W	rmspe	r~e_rank	rmspe_bc	r~c_ran
1926.	7	0	1.795999	1.775765	.	.	.	.
> .	.	.	26	1	.	.	.	.
1927.	7	1	1.667999	1.708312	.	.	.	.
> .	.	.	26	1	.	.	.	.
1928.	7	2	1.752999	1.686119	.	.	.	.
> .	.	.	26	1	.	.	.	.
1929.	7	3	1.878402	2.090436	.	.	.	.
> .	.	.	26	1	.	.	.	.
1930.	7	4	1.923399	2.026577	.	.	.	.
> .	.	.	26	1	.	.	.	.
1931.	7	5	1.982999	2.555014	.	.	.	.
> .	.	.	26	1	.	.	.	.
1932.	7	6	1.953401	3.081003	.	.	.	.
> .	.	.	26	1	.	.	.	.
1933.	7	7	1.998401	3.303289	.	.	.	.
> .	.	.	26	1	.	.	.	.
1934.	7	8	1.932598	3.38656	.	.	.	.
> .	.	.	26	1	.	.	.	.
1935.	7	9	2.002199	3.622003	.	.	.	.
> .	.	.	26	1	.	.	.	.
1936.	7	10	2.048002	4.047136	.	.	.	.
> .	.	.	26	1	.	.	.	.
1937.	7	11	2.043	4.125448	.	.	.	.
> .	.	.	26	1	.	.	.	.
1938.	7	12	1.981399	4.269667	.	.	.	.
> .	.	.	26	1	.	.	.	.
1939.	7	13	2.019801	4.551363	.	.	.	.
> .	.	.	26	1	.	.	.	.
1940.	7	14	1.9394	4.814228	.	.	.	.
> .	.	.	26	1	.	.	.	.
1941.	7	15	1.878598	4.782872	.	.	.	.
> .	.	.	26	1	.	.	.	.
1942.	7	16	1.948199	5.210133	.	.	.	.
> .	.	.	26	1	.	.	.	.
1943.	7	17	1.9424	5.222083	.	.	.	.
> .	.	.	26	1	.	.	.	.
1944.	7	18	1.861201	5.055832	.	.	.	.

> .				26	1			
1945.		7	19	1.930001	5.360954			
> .				26	1			
1946.		7	20	1.854602	5.473272			
> .				26	1			
1947.		7	21	1.8988	5.413963			
> .				26	1			
1948.		7	22	1.893002	5.751052			
> .				26	1			
1949.		7	23	1.917599	5.802018			
> .				26	1			
1950.		7	24	1.9626	5.921918			
> .				26	1			
1951.		7	25	1.931399	5.820775			
> .				26	1			
1952.		7	26	1.9314	6.264202			
> .				26	1			
1953.		7	27	1.901	6.341355			
> .				26	1			
1954.		7	28	2.050999	6.782124			
> .				26	1			
1955.		7	29	2.009801	6.705701			
> .				26	1			
1956.		7	30	2.128599	6.776867			
> .				26	1			
1957.		7	31	2.248201	6.922553			
> .				26	1			
1958.		7	32	2.272799	7.025689			
> .				26	1			
1959.		7	33	2.347401	7.392618			
> .				26	1			
1960.		7	34	2.417	7.687443			
> .				26	1			
1961.		7	35	2.436599	8.068161			
> .				26	1			
1962.		7	36	2.455399	8.001535			
> .				26	1			
1963.		7	37	2.544601	8.269383			
> .				26	1			
1964.		7	38	2.544599	8.3998			
> .				26	1			
1965.		7	39	2.564202	8.583223			
> .				26	1			
1966.		7	40	2.583801	8.779877	1.57744	11	2.447019
> 5	4230769			.1923077 26	1			
1967.		7	41	2.728	9.063047	1.667932	10	2.527213
> 5	3846154			.1923077 26	1			
1968.		7	42	2.747602	9.300322	1.70655	10	2.600049
> 5	3846154			.1923077 26	1			
1969.		7	43	2.772197	9.396327	1.733878	10	2.650712
> 5	3846154			.1923077 26	1			
1970.		7	44	2.841799	9.580304	1.768741	10	2.703275
> 5	3846154			.1923077 26	1			
1971.		7	45	2.7918	9.478877	1.78089	10	2.72809
> 5	3846154			.1923077 26	1			
1972.		7	46	2.861403	9.763128	1.802849	10	2.770618
> 5	3846154			.1923077 26	1			
1973.		7	47	2.935998	9.927704	1.832092	9	2.815373
> 5	3461539			.1923077 26	1			
1974.		7	48	2.880999	9.917784	1.846437	9	2.849488

> 5	3461539	.1923077	26	1			
1975.	7	49	2.955602	10.12987	1.868201	9	2.890277
> 5	3461539	.1923077	26	1			
<hr/>							
1976.	7	50	2.875199	9.984899	1.875939	9	2.915235
> 5	3461539	.1923077	26	1			
1977.	7	51	2.975202	10.25361	1.893906	9	2.950418
> 5	3461539	.1923077	26	1			
1978.	7	52	2.8948	10.12722	1.900531	9	2.9739
> 5	3461539	.1923077	26	1			
1979.	7	53	2.894799	10.12388	1.906209	9	2.993873
> 5	3461539	.1923077	26	1			
1980.	7	54	3.014401	10.28751	1.922264	8	3.018252
> 5	3076923	.1923077	26	1			
<hr/>							
1981.	7	55	2.989798	10.40118	1.93413	8	3.044248
> 5	3076923	.1923077	26	1			
1982.	7	56	2.959399	10.41128	1.942086	9	3.067579
> 5	3461539	.1923077	26	1			
1983.	7	57	2.933999	10.32637	1.947194	9	3.085213
> 5	3461539	.1923077	26	1			
1984.	7	58	2.954403	10.59709	1.953257	9	3.110453
> 5	3461539	.1923077	26	1			
1985.	7	59	2.979001	10.70265	1.960439	8	3.136739
> 6	3076923	.2307692	26	1			
<hr/>							
1986.	7	60	3.024	10.88272	1.969976	8	3.166396
> 6	3076923	.2307692	26	1			
1987.	7	61	3.023998	10.88091	1.978647	7	3.1933
> 6	2692308	.2307692	26	1			
1988.	7	62	3.018999	10.95021	1.986252	7	3.219954
> 6	2692308	.2307692	26	1			
1989.	7	63	3.044402	11.1459	1.994741	7	3.250105
> 6	2692308	.2307692	26	1			
1990.	7	64	3.044401	11.20351	2.00255	7	3.279479
> 6	2692308	.2307692	26	1			
<hr/>							
1991.	7	65	3.089398	11.36243	2.012267	7	3.310972
> 6	2692308	.2307692	26	1			
1992.	7	66	3.063999	11.23714	2.019896	7	3.336802
> 6	2692308	.2307692	26	1			
1993.	7	67	3.0894	11.36921	2.028299	7	3.364174
> 6	2692308	.2307692	26	1			
1994.	7	68	3.109	11.63178	2.037113	7	3.396267
> 6	2692308	.2307692	26	1			
1995.	7	69	3.134403	11.7566	2.046588	7	3.429311
> 6	2692308	.2307692	26	1			
<hr/>							
1996.	7	70	3.134399	11.7042	2.055452	8	3.458963
> 6	3076923	.2307692	26	1			
1997.	7	71	3.134398	11.65226	2.063762	8	3.485559
> 6	3076923	.2307692	26	1			
1998.	7	72	3.179399	11.81531	2.073602	8	3.514225
> 6	3076923	.2307692	26	1			
1999.	7	73	3.1548	11.83617	2.081781	8	3.541664
> 6	3076923	.2307692	26	1			
2000.	7	74	3.1548	11.84547	2.089493	8	3.567735
> 6	3076923	.2307692	26	1			
<hr/>							
2001.	7	75	3.199803	12.10579	2.098653	8	3.597856
> 6	3076923	.2307692	26	1			
2002.	7	76	3.199799	12.05568	2.107317	8	3.625309
> 6	3076923	.2307692	26	1			

allsynth is a user-written command made freely-available to the research community. Please cite the paper:

Wiltshire, Justin C., 2022. allsynth: (Stacked) Synthetic Control Bias-Correction Utilities for Stata. Working paper.

```

3 .
4 . allsynth fullvax repvotes2020pct black fullcollege cases_per_capita whiteevangelical
> catholic poverty medfamilinc pop0to4pct pop5to9pct pop10to14pct pop15to19pct pop60t
> o64pct pop65to69pct pop70to74pct pop75to79pct pop80to84pct pop85abovepct, trunit(7)
> trperiod(40) bcorrect(merge) gapfigure(bcorrect, save(synthcontrolresults_fullvax_gp
> h.svg, replace)) keep(synthcontrolresults_fullvax, replace) pvalues

```

Identifying donor pool...

Bias-correcting the plain vanilla -synth- estimate for statecode 7

Synthetic Control Method for Comparative Case Studies

First Step: Data Setup

Data Setup successful

```

                Treated Unit: CO
            Control Units: AL, AZ, DC, FL, GA, IA, ID, IN, KS, MS, MT, ND, NE, NH,
                        OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, WY
            Dependent Variable: fullvaxpct
MSPE minimized for periods: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
                        22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
Results obtained for periods: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
                        22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
                        41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59
                        60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76
            Predictors: repvotes2020pct black fullcollege cases_per_capita
                        whiteevangelical catholic poverty medfamilinc pop0to4pct
                        pop5to9pct pop10to14pct pop15to19pct pop60to64pct
                        pop65to69pct pop70to74pct pop75to79pct pop80to84pct
                        pop85abovepct
Unless period is specified
predictors are averaged over: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
                        22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

```

Second Step: Run Optimization

Optimization done

Third Step: Obtain Results

Loss: Root Mean Squared Prediction Error

RMSPE	1.840802
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Unit Weights:

Co_No	Unit_Weight
AL	0
AZ	0
DC	.172
FL	0
GA	0
IA	0
ID	0
IN	0
KS	0
MS	0
MT	0
ND	0
NE	0
NH	.341
OK	0
PA	0
RI	0
SC	0
SD	0
TN	0
TX	.403
VA	.007
VT	0
WI	0
WY	.078

Predictor Balance:

	Treated	Synthetic
repvotes2020pct	42.1467	43.08309
black	4.635333	14.47003
fullcollege	41.00235	37.34102
cases_per_capita	.0402105	.032687
whiteevangelical	16.41762	13.51393
catholic	18.18784	22.18697
poverty	9.429272	11.20439
medfamilinc	93187.19	92297.6
pop0to4pct	5.752328	5.959465
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pop75to79pct	2.469836	2.635322
pop80to84pct	1.541385	1.665828
pop85abovepct	1.565145	1.786021

Estimating synthetic controls using in-space placebo treatments for treated unit state > code == 7. This could take awhile...

```

1 of 25 (donor pool unit statecode == 2 for treated unit statecode == 7)
2 of 25 (donor pool unit statecode == 5 for treated unit statecode == 7)
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21 of 25 (donor pool unit statecode == 51 for treated unit statecode == 7)
22 of 25 (donor pool unit statecode == 54 for treated unit statecode == 7)
23 of 25 (donor pool unit statecode == 56 for treated unit statecode == 7)
24 of 25 (donor pool unit statecode == 58 for treated unit statecode == 7)
25 of 25 (donor pool unit statecode == 60 for treated unit statecode == 7)

```

Saving results...

(1,040 missing values generated)

(1,040 missing values generated)

Combining data files

(1,925 observations deleted)

Treated unit (statecode == 7) results:

> k	statec-e p	t p_bc	gap N	gap_bc unique_W	rmspe	r~e_rank	rmspe_bc	r~c_ran
1926.	7	0	.2316	7.578515	.	.	.	.
> .	.	.	26	1	.	.	.	.
1927.	7	1	.2660009	7.114801	.	.	.	.
> .	.	.	26	1	.	.	.	.
1928.	7	2	.4756998	6.731262	.	.	.	.
> .	.	.	26	1	.	.	.	.
1929.	7	3	.6662006	6.791915	.	.	.	.
> .	.	.	26	1	.	.	.	.
1930.	7	4	.8446992	6.698419	.	.	.	.
> .	.	.	26	1	.	.	.	.
1931.	7	5	.8996994	6.497786	.	.	.	.
> .	.	.	26	1	.	.	.	.
1932.	7	6	.8789003	6.478991	.	.	.	.
> .	.	.	26	1	.	.	.	.
1933.	7	7	1.1325	6.759116	.	.	.	.
> .	.	.	26	1	.	.	.	.
1934.	7	8	1.2664	6.531877	.	.	.	.
> .	.	.	26	1	.	.	.	.
1935.	7	9	1.3572	6.143378	.	.	.	.
> .	.	.	26	1	.	.	.	.
1936.	7	10	1.430501	6.156705	.	.	.	.
> .	.	.	26	1	.	.	.	.
1937.	7	11	1.5073	6.03652	.	.	.	.
> .	.	.	26	1	.	.	.	.
1938.	7	12	1.416799	5.662984	.	.	.	.
> .	.	.	26	1	.	.	.	.
1939.	7	13	1.277198	5.279618	.	.	.	.
> .	.	.	26	1	.	.	.	.
1940.	7	14	1.319701	4.786708	.	.	.	.
> .	.	.	26	1	.	.	.	.
1941.	7	15	1.276898	4.005605	.	.	.	.
> .	.	.	26	1	.	.	.	.
1942.	7	16	1.476499	3.914366	.	.	.	.
> .	.	.	26	1	.	.	.	.
1943.	7	17	1.6747	4.083821	.	.	.	.
> .	.	.	26	1	.	.	.	.
1944.	7	18	1.724699	3.69693	.	.	.	.

> .				26	1			
1945.		7	19	1.702102	3.521761			
> .				26	1			
1946.		7	20	1.796699	3.500467			
> .				26	1			
1947.		7	21	1.880299	3.2716			
> .				26	1			
1948.		7	22	1.906399	2.82024			
> .				26	1			
1949.		7	23	2.033699	2.592845			
> .				26	1			
1950.		7	24	2.124199	2.573316			
> .				26	1			
1951.		7	25	2.2183	2.939141			
> .				26	1			
1952.		7	26	2.270499	3.44255			
> .				26	1			
1953.		7	27	2.2132	3.752155			
> .				26	1			
1954.		7	28	2.2411	3.79559			
> .				26	1			
1955.		7	29	2.217899	3.860952			
> .				26	1			
1956.		7	30	2.2615	4.087705			
> .				26	1			
1957.		7	31	2.374402	4.382715			
> .				26	1			
1958.		7	32	2.344499	4.355224			
> .				26	1			
1959.		7	33	2.3961	4.604013			
> .				26	1			
1960.		7	34	2.399598	4.857583			
> .				26	1			
1961.		7	35	2.4109	5.133873			
> .				26	1			
1962.		7	36	2.414402	5.405509			
> .				26	1			
1963.		7	37	2.301098	5.406707			
> .				26	1			
1964.		7	38	2.391599	5.678711			
> .				26	1			
1965.		7	39	2.3131	5.700305			
> .				26	1			
1966.		7	40	2.2836	5.821169	1.608016	12	1.299142
> 9	4615385			26	1			
1967.		7	41	2.313798	6.285264	1.62942	12	1.406845
> 6	4615385			26	1			
1968.		7	42	2.201199	6.206377	1.584301	12	1.430153
> 6	4615385			26	1			
1969.		7	43	2.239898	6.324265	1.574991	13	1.455966
> 6	.5			26	1			
1970.		7	44	2.2794	6.386051	1.580413	13	1.477475
> 6	.5			26	1			
1971.		7	45	2.1793	6.310689	1.561092	13	1.4857
> 6	.5			26	1			
1972.		7	46	2.278602	6.651335	1.566791	13	1.515758
> 6	.5			26	1			
1973.		7	47	2.166699	6.575444	1.551891	13	1.533492
> 5	.5			26	1			
1974.		7	48	2.156699	6.859795	1.538822	13	1.563558

> 5	.5	.1923077	26	1			
1975.	7	49	2.171098	6.955491	1.530287	13	1.59268
> 5	.5	.1923077	26	1			
1976.	7	50	2.2516	7.125115	1.533285	13	1.624832
> 5	.5	.1923077	26	1			
1977.	7	51	2.139001	6.938279	1.52308	13	1.64323
> 5	.5	.1923077	26	1			
1978.	7	52	2.287	7.186336	1.529982	13	1.66913
> 5	.5	.1923077	26	1			
1979.	7	53	2.325701	7.26894	1.53983	13	1.694601
> 5	.5	.1923077	26	1			
1980.	7	54	2.3504	7.624736	1.550739	13	1.730219
> 5	.5	.1923077	26	1			
1981.	7	55	2.405998	7.907773	1.565381	13	1.771919
> 5	.5	.1923077	26	1			
1982.	7	56	2.470999	8.292495	1.584051	13	1.822769
> 5	.5	.1923077	26	1			
1983.	7	57	2.4353	8.237117	1.597645	13	1.86602
> 6	.5	.2307692	26	1			
1984.	7	58	2.516599	8.404164	1.616343	13	1.910327
> 6	.5	.2307692	26	1			
1985.	7	59	2.524301	8.407607	1.633769	13	1.950314
> 6	.5	.2307692	26	1			
1986.	7	60	2.531202	8.690216	1.650047	13	1.995315
> 6	.5	.2307692	26	1			
1987.	7	61	2.555299	8.994803	1.666564	13	2.045611
> 7	.5	.2692308	26	1			
1988.	7	62	2.5954	9.187088	1.684414	13	2.097362
> 7	.5	.2692308	26	1			
1989.	7	63	2.637101	9.192966	1.703579	13	2.144973
> 7	.5	.2692308	26	1			
1990.	7	64	2.661901	9.403211	1.722833	13	2.19477
> 7	.5	.2692308	26	1			
1991.	7	65	2.734802	9.584457	1.745271	13	2.245812
> 7	.5	.2692308	26	1			
1992.	7	66	2.793799	9.716014	1.769772	13	2.296678
> 7	.5	.2692308	26	1			
1993.	7	67	2.7937	9.697321	1.792517	12	2.343414
> 7	4615385	.2692308	26	1			
1994.	7	68	2.7595	9.68169	1.811674	12	2.386527
> 7	4615385	.2692308	26	1			
1995.	7	69	2.841501	9.826703	1.834275	13	2.43038
> 7	.5	.2692308	26	1			
1996.	7	70	2.8004	10.00366	1.853111	13	2.475744
> 7	.5	.2692308	26	1			
1997.	7	71	2.900302	10.24513	1.876257	13	2.524131
> 7	.5	.2692308	26	1			
1998.	7	72	2.907998	10.29413	1.898419	13	2.570755
> 7	.5	.2692308	26	1			
1999.	7	73	2.832899	10.22884	1.915367	13	2.613125
> 7	.5	.2692308	26	1			
2000.	7	74	2.9328	10.2932	1.936421	12	2.654521
> 7	4615385	.2692308	26	1			
2001.	7	75	2.932698	10.34999	1.9563	12	2.694865
> 7	4615385	.2692308	26	1			
2002.	7	76	2.932601	10.26407	1.9751	12	2.731193
> 7	4615385	.2692308	26	1			

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Wiltshire, Justin C., 2022. allsynth: (Stacked) Synthetic Control Bias-Correction Utilities for Stata. Working paper.

```
5 .
6 . allsynth dDose1pct repvotes2020pct black fullcollege cases_per_capita whiteevangelic
> al catholic poverty medfamilinc pop0to4pct pop5to9pct pop10to14pct pop15to19pct pop6
> 0to64pct pop65to69pct pop70to74pct pop75to79pct pop80to84pct pop85abovepct, trunit(7
> ) trperiod(40) bcorrect(merge) gapfigure(bcorrect, save(synthcontrolresults_ddose1_g
> ph.svg, replace)) keep(synthcontrolresults_ddose, replace) pvalues
```

Identifying donor pool...

Bias-correcting the plain vanilla -synth- estimate for statecode 7

Synthetic Control Method for Comparative Case Studies

First Step: Data Setup

Data Setup successful

```

Treated Unit: CO
Control Units: AL, AZ, DC, FL, GA, IA, ID, IN, KS, MS, MT, ND, NE, NH,
                OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, WY

Dependent Variable: dDose1pct
MSPE minimized for periods: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
                             22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
Results obtained for periods: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
                             22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
                             41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59
                             60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76

Predictors: repvotes2020pct black fullcollege cases_per_capita
             whiteevangelical catholic poverty medfamilinc pop0to4pct
             pop5to9pct pop10to14pct pop15to19pct pop60to64pct
             pop65to69pct pop70to74pct pop75to79pct pop80to84pct
             pop85abovepct

Unless period is specified
predictors are averaged over: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
                             22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
```

Second Step: Run Optimization

Optimization done

Third Step: Obtain Results

Loss: Root Mean Squared Prediction Error

RMSPE	.0005879
-------	----------

Unit Weights:

Co_No	Unit_Weight
AL	0
AZ	0
DC	.232
FL	0
GA	.029
IA	0
ID	0
IN	0
KS	0
MS	0
MT	0
ND	0
NE	0
NH	.251
OK	0
PA	0
RI	0
SC	0
SD	0
TN	0
TX	.311
VA	0
VT	0
WI	0
WY	.176

Predictor Balance:

	Treated	Synthetic
repvotes2020pct	42.1467	42.53357
black	4.635333	16.59663
fullcollege	41.00235	38.05004
cases_per_capita	.0402105	.0358119
whiteevangelical	16.41762	13.64801
catholic	18.18784	19.89444
poverty	9.429272	11.44496
medfamilinc	93187.19	92745.96
pop0to4pct	5.752328	6.027327
pop5to9pct	6.012807	6.045051
pop10to14pct	6.308905	5.985311
pop15to19pct	6.353192	6.251323
pop60to64pct	6.057702	6.096503
pop65to69pct	5.157971	5.064713
pop70to74pct	3.932786	3.931085
pop75to79pct	2.469836	2.604531
pop80to84pct	1.541385	1.649334
pop85abovepct	1.565145	1.775401

Estimating synthetic controls using in-space placebo treatments for treated unit state > code == 7. This could take awhile...

```

1 of 25 (donor pool unit statecode == 2 for treated unit statecode == 7)
2 of 25 (donor pool unit statecode == 5 for treated unit statecode == 7)
3 of 25 (donor pool unit statecode == 9 for treated unit statecode == 7)
4 of 25 (donor pool unit statecode == 11 for treated unit statecode == 7)
5 of 25 (donor pool unit statecode == 13 for treated unit statecode == 7)
6 of 25 (donor pool unit statecode == 16 for treated unit statecode == 7)
7 of 25 (donor pool unit statecode == 17 for treated unit statecode == 7)
8 of 25 (donor pool unit statecode == 19 for treated unit statecode == 7)
9 of 25 (donor pool unit statecode == 20 for treated unit statecode == 7)
10 of 25 (donor pool unit statecode == 31 for treated unit statecode == 7)
11 of 25 (donor pool unit statecode == 32 for treated unit statecode == 7)
12 of 25 (donor pool unit statecode == 34 for treated unit statecode == 7)
13 of 25 (donor pool unit statecode == 35 for treated unit statecode == 7)

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14 of 25 (donor pool unit statecode == 36 for treated unit statecode == 7)
15 of 25 (donor pool unit statecode == 42 for treated unit statecode == 7)
16 of 25 (donor pool unit statecode == 44 for treated unit statecode == 7)
17 of 25 (donor pool unit statecode == 47 for treated unit statecode == 7)
18 of 25 (donor pool unit statecode == 48 for treated unit statecode == 7)
19 of 25 (donor pool unit statecode == 49 for treated unit statecode == 7)
20 of 25 (donor pool unit statecode == 50 for treated unit statecode == 7)
21 of 25 (donor pool unit statecode == 51 for treated unit statecode == 7)
22 of 25 (donor pool unit statecode == 54 for treated unit statecode == 7)
23 of 25 (donor pool unit statecode == 56 for treated unit statecode == 7)
24 of 25 (donor pool unit statecode == 58 for treated unit statecode == 7)
25 of 25 (donor pool unit statecode == 60 for treated unit statecode == 7)

```

Saving results...

(1,040 missing values generated)

(1,040 missing values generated)

Combining data files

(1,925 observations deleted)

Treated unit (statecode == 7) results:

> ank	statec~e p	t	p_bc	gap N	gap_bc unique_w	rmspe	r~e_rank	rmspe_bc	r~c_r
1926.	7	0	.0007786		-.0019439	.	.	.	
> .	.		.26		1				
1927.	7	1	-.0006055		-.0015792	.	.	.	
> .	.		.26		1				
1928.	7	2	.0011665		.0023252	.	.	.	
> .	.		.26		1				
1929.	7	3	.0014706		.002977	.	.	.	
> .	.		.26		1				
1930.	7	4	.0003334		.0003931	.	.	.	
> .	.		.26		1				
1931.	7	5	.0007936		.0051019	.	.	.	
> .	.		.26		1				
1932.	7	6	-.0003839		.0056935	.	.	.	
> .	.		.26		1				
1933.	7	7	.0007246		.0034606	.	.	.	
> .	.		.26		1				
1934.	7	8	.000315		.0026307	.	.	.	
> .	.		.26		1				
1935.	7	9	.0000965		.001974	.	.	.	
> .	.		.26		1				
1936.	7	10	.0005285		.0030195	.	.	.	
> .	.		.26		1				
1937.	7	11	-.0000459		.0013483	.	.	.	
> .	.		.26		1				
1938.	7	12	-.0000526		.001618	.	.	.	
> .	.		.26		1				
1939.	7	13	-.0002017		.0031197	.	.	.	
> .	.		.26		1				
1940.	7	14	-.0002772		.0022626	.	.	.	
> .	.		.26		1				
1941.	7	15	-.0005424		.0015863	.	.	.	
> .	.		.26		1				
1942.	7	16	.000219		.0021384	.	.	.	
> .	.		.26		1				
1943.	7	17	.0000916		.0006182	.	.	.	
> .	.		.26		1				
1944.	7	18	-.0004129		-.0004321	.	.	.	

>	.	.	26	1			
1945.	7	19	.0002534	.0016038	.	.	.
>	.	.	26	1			
1946.	7	20	.0000682	.0025151	.	.	.
>	.	.	26	1			
1947.	7	21	-.0000557	.0013495	.	.	.
>	.	.	26	1			
1948.	7	22	.0002364	.0024751	.	.	.
>	.	.	26	1			
1949.	7	23	.0004696	.0011127	.	.	.
>	.	.	26	1			
1950.	7	24	.0002208	.0005217	.	.	.
>	.	.	26	1			
1951.	7	25	-.0001328	.0008773	.	.	.
>	.	.	26	1			
1952.	7	26	.000293	.0024575	.	.	.
>	.	.	26	1			
1953.	7	27	.0001138	.0030049	.	.	.
>	.	.	26	1			
1954.	7	28	.0004656	.0017616	.	.	.
>	.	.	26	1			
1955.	7	29	.0006288	.0012105	.	.	.
>	.	.	26	1			
1956.	7	30	.000944	.0002053	.	.	.
>	.	.	26	1			
1957.	7	31	.0012311	.0018876	.	.	.
>	.	.	26	1			
1958.	7	32	.0005529	.001816	.	.	.
>	.	.	26	1			
1959.	7	33	.0007204	.0048175	.	.	.
>	.	.	26	1			
1960.	7	34	.0008615	.0034769	.	.	.
>	.	.	26	1			
1961.	7	35	.0006532	.0027253	.	.	.
>	.	.	26	1			
1962.	7	36	.0004215	.0016236	.	.	.
>	.	.	26	1			
1963.	7	37	.0007277	.0028523	.	.	.
>	.	.	26	1			
1964.	7	38	.0007845	.0014769	.	.	.
>	.	.	26	1			
1965.	7	39	.0002779	.0022819	.	.	.
>	.	.	26	1			
1966.	7	40	.0002925	.0024094	.2467607	7	.9495273
> 1	.2692308	.0384615	26	1			
1967.	7	41	.0004592	.0024419	.4274532	5	.9624298
> 1	.1923077	.0384615	26	1			
1968.	7	42	.0005462	.001805	.5717819	5	.8192555
> 2	.1923077	.0769231	26	1			
1969.	7	43	.0006291	.001682	.7142354	2	.7301254
> 2	.0769231	.0769231	26	1			
1970.	7	44	.0002881	.0007687	.6192657	3	.6034327
> 2	.1153846	.0769231	26	1			
1971.	7	45	.0001655	.0008741	.5292234	4	.5236874
> 2	.1538462	.0769231	26	1			
1972.	7	46	.0001567	.0005473	.4637328	4	.455874
> 2	.1538462	.0769231	26	1			
1973.	7	47	.0004317	.0019955	.4729544	3	.4803018
> 2	.1153846	.0769231	26	1			
1974.	7	48	.0002398	.0013616	.4388295	4	.4606266

> 2	.1538462	.0769231	26	1			
1975.	7	49	.0002445	.001415	.4121906	3	.4473123
> 2	.1153846	.0769231	26	1			
1976.	7	50	.0000191	.0011611	.3748146	5	.4266933
> 2	.1923077	.0769231	26	1			
1977.	7	51	.0001787	.000783	.3512565	5	.3994919
> 2	.1923077	.0769231	26	1			
1978.	7	52	.0000481	.0001297	.3247496	5	.3689733
> 2	.1923077	.0769231	26	1			
1979.	7	53	.0001049	.0005697	.3038188	6	.3464097
> 5	.2307692	.1923077	26	1			
1980.	7	54	.0000947	.0011004	.2852875	6	.3365203
> 5	.2307692	.1923077	26	1			
1981.	7	55	3.35e-06	.000937	.267459	6	.324463
> 5	.2307692	.1923077	26	1			
1982.	7	56	.0001905	.0012103	.2578829	6	.3194712
> 5	.2307692	.1923077	26	1			
1983.	7	57	.0001942	.0007414	.2495969	6	.3067182
> 5	.2307692	.1923077	26	1			
1984.	7	58	.0001017	.0008566	.2380313	6	.2968913
> 5	.2307692	.1923077	26	1			
1985.	7	59	.0000901	.0003265	.2272999	6	.2829184
> 5	.2307692	.1923077	26	1			
1986.	7	60	-1.09e-06	.0007584	.2164762	7	.273926
> 6	.2692308	.2307692	26	1			
1987.	7	61	.0001114	.0013902	.2082641	7	.2758448
> 6	.2692308	.2307692	26	1			
1988.	7	62	.0000585	.0013274	.199638	7	.2763818
> 5	.2692308	.1923077	26	1			
1989.	7	63	.0000907	.0012092	.1923083	7	.2748314
> 5	.2692308	.1923077	26	1			
1990.	7	64	.0002718	.0009974	.1931428	7	.2703465
> 5	.2692308	.1923077	26	1			
1991.	7	65	.0000522	.0008701	.1860171	7	.2647117
> 5	.2692308	.1923077	26	1			
1992.	7	66	.0001391	.0005271	.1811956	7	.2565909
> 5	.2692308	.1923077	26	1			
1993.	7	67	.0001381	.0009133	.1766904	7	.2522993
> 5	.2692308	.1923077	26	1			
1994.	7	68	.0001509	.0011921	.1728627	7	.2516145
> 5	.2692308	.1923077	26	1			
1995.	7	69	.000183	.0012292	.1703193	7	.2514658
> 5	.2692308	.1923077	26	1			
1996.	7	70	.0001434	.0010494	.1667392	8	.2491648
> 5	.3076923	.1923077	26	1			
1997.	7	71	.0001884	.0005514	.1647284	8	.2429325
> 5	.3076923	.1923077	26	1			
1998.	7	72	.0000778	.000694	.1602653	8	.2379581
> 5	.3076923	.1923077	26	1			
1999.	7	73	.0001478	.0004576	.1574053	9	.2319667
> 5	.3461539	.1923077	26	1			
2000.	7	74	.0000756	.0006456	.1533788	9	.227287
> 5	.3461539	.1923077	26	1			
2001.	7	75	.0001334	.001072	.1505444	9	.2261953
> 5	.3461539	.1923077	26	1			
2002.	7	76	.0000914	.000669	.1471276	9	.2220602
> 6	.3461539	.2307692	26	1			

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Wiltshire, Justin C., 2022. **allsynth**: (Stacked) Synthetic Control Bias-Correction Utilities for Stata. Working paper.

```
7 .
8 . allsynth dFullvaxpct repvotes2020pct black fullcollege cases_per_capita whiteevangel
> ical catholic poverty medfamilinc pop0to4pct pop5to9pct pop10to14pct pop15to19pct po
> p60to64pct pop65to69pct pop70to74pct pop75to79pct pop80to84pct pop85abovepct, trunit
> (7) trperiod(40) bcorrect(merge) gapfigure(bcorrect, save(synthcontrolresults_dfullv
> ax_gph.svg, replace)) keep(synthcontrolresults_dfullvax, replace) pvalues
```

Identifying donor pool...

Bias-correcting the plain vanilla -synth- estimate for statecode 7

Synthetic Control Method for Comparative Case Studies

First Step: Data Setup

Data Setup successful

Treated Unit: CO	
Control Units: AL, AZ, DC, FL, GA, IA, ID, IN, KS, MS, MT, ND, NE, NH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, WY	
Dependent Variable: dFullvaxpct	
MSPE minimized for periods:	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
Results obtained for periods:	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76
Predictors: repvotes2020pct black fullcollege cases_per_capita whiteevangelical catholic poverty medfamilinc pop0to4pct pop5to9pct pop10to14pct pop15to19pct pop60to64pct pop65to69pct pop70to74pct pop75to79pct pop80to84pct pop85abovepct	
Unless period is specified predictors are averaged over:	
	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

Second Step: Run Optimization

Optimization done

Third Step: Obtain Results

Loss: Root Mean Squared Prediction Error

RMSPE	.0013104
-------	-----------------

Unit Weights:

Co_No	Unit_Weight
AL	0
AZ	0
DC	.218
FL	0
GA	.035
IA	0
ID	0
IN	0
KS	0
MS	0
MT	0
ND	0
NE	0
NH	.264
OK	0
PA	0
RI	0
SC	0
SD	0
TN	0
TX	.358
VA	0
VT	0
WI	0
WY	.124

Predictor Balance:

	Treated	Synthetic
repvotes2020pct	42.1467	42.1365
black	4.635333	16.82942
fullcollege	41.00235	37.89992
cases_per_capita	.0402105	.0348974
whiteevangelical	16.41762	13.71724
catholic	18.18784	20.4832
poverty	9.429272	11.53861
medfamilinc	93187.19	92252.21
pop0to4pct	5.752328	6.041496
pop5to9pct	6.012807	6.070359
pop10to14pct	6.308905	6.024419
pop15to19pct	6.353192	6.303801
pop60to64pct	6.057702	6.054136
pop65to69pct	5.157971	5.011463
pop70to74pct	3.932786	3.903837
pop75to79pct	2.469836	2.586967
pop80to84pct	1.541385	1.6376
pop85abovepct	1.565145	1.755777

Estimating synthetic controls using in-space placebo treatments for treated unit state
> code == 7. This could take awhile...

```

1 of 25 (donor pool unit statecode == 2 for treated unit statecode == 7)
2 of 25 (donor pool unit statecode == 5 for treated unit statecode == 7)
3 of 25 (donor pool unit statecode == 9 for treated unit statecode == 7)
4 of 25 (donor pool unit statecode == 11 for treated unit statecode == 7)
5 of 25 (donor pool unit statecode == 13 for treated unit statecode == 7)
6 of 25 (donor pool unit statecode == 16 for treated unit statecode == 7)
7 of 25 (donor pool unit statecode == 17 for treated unit statecode == 7)
8 of 25 (donor pool unit statecode == 19 for treated unit statecode == 7)
9 of 25 (donor pool unit statecode == 20 for treated unit statecode == 7)
10 of 25 (donor pool unit statecode == 31 for treated unit statecode == 7)
11 of 25 (donor pool unit statecode == 32 for treated unit statecode == 7)
12 of 25 (donor pool unit statecode == 34 for treated unit statecode == 7)
13 of 25 (donor pool unit statecode == 35 for treated unit statecode == 7)

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14 of 25 (donor pool unit statecode == 36 for treated unit statecode == 7)
15 of 25 (donor pool unit statecode == 42 for treated unit statecode == 7)
16 of 25 (donor pool unit statecode == 44 for treated unit statecode == 7)
17 of 25 (donor pool unit statecode == 47 for treated unit statecode == 7)
18 of 25 (donor pool unit statecode == 48 for treated unit statecode == 7)
19 of 25 (donor pool unit statecode == 49 for treated unit statecode == 7)
20 of 25 (donor pool unit statecode == 50 for treated unit statecode == 7)
21 of 25 (donor pool unit statecode == 51 for treated unit statecode == 7)
22 of 25 (donor pool unit statecode == 54 for treated unit statecode == 7)
23 of 25 (donor pool unit statecode == 56 for treated unit statecode == 7)
24 of 25 (donor pool unit statecode == 58 for treated unit statecode == 7)
25 of 25 (donor pool unit statecode == 60 for treated unit statecode == 7)

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Saving results...

(1,040 missing values generated)

(1,040 missing values generated)

Combining data files

(1,925 observations deleted)

Treated unit (statecode == 7) results:

> ank	statec~e p	t	p_bc	gap N	gap_bc unique_W	rmspe	r~e_rank	rmspe_bc	r~c_r
1926.	7	0	.0014715		-.0007904	.	.	.	
> .	.		.26		1				
1927.	7	1	.0013001		-.0031084	.	.	.	
> .	.		.26		1				
1928.	7	2	.0030955		-.0023124	.	.	.	
> .	.		.26		1				
1929.	7	3	.0024101		.001396	.	.	.	
> .	.		.26		1				
1930.	7	4	.0011166		-.0011862	.	.	.	
> .	.		.26		1				
1931.	7	5	.0006814		-.0035259	.	.	.	
> .	.		.26		1				
1932.	7	6	.0005246		.0018267	.	.	.	
> .	.		.26		1				
1933.	7	7	.0022039		.0012505	.	.	.	
> .	.		.26		1				
1934.	7	8	.0018816		-.0007764	.	.	.	
> .	.		.26		1				
1935.	7	9	.0020931		-.0036921	.	.	.	
> .	.		.26		1				
1936.	7	10	.0004411		.0003839	.	.	.	
> .	.		.26		1				
1937.	7	11	.0009442		-.0016024	.	.	.	
> .	.		.26		1				
1938.	7	12	-.0006011		-.002262	.	.	.	
> .	.		.26		1				
1939.	7	13	-.0009758		-.0037102	.	.	.	
> .	.		.26		1				
1940.	7	14	.0005478		-.0056942	.	.	.	
> .	.		.26		1				
1941.	7	15	.0001879		-.0053592	.	.	.	
> .	.		.26		1				
1942.	7	16	.0029045		-.0007221	.	.	.	
> .	.		.26		1				
1943.	7	17	.0023465		.0009737	.	.	.	
> .	.		.26		1				
1944.	7	18	.0001289		-.0034337	.	.	.	

>	.	.	26	1			
1945.	7	19	.0011551	-.0007893	.	.	.
>	.	.	26	1			
1946.	7	20	.0005739	.0004067	.	.	.
>	.	.	26	1			
1947.	7	21	.0008006	-.0043715	.	.	.
>	.	.	26	1			
1948.	7	22	.0005609	-.0040053	.	.	.
>	.	.	26	1			
1949.	7	23	.0020943	-.0008989	.	.	.
>	.	.	26	1			
1950.	7	24	.0013521	.0021542	.	.	.
>	.	.	26	1			
1951.	7	25	.001503	.000971	.	.	.
>	.	.	26	1			
1952.	7	26	.0009919	.0068117	.	.	.
>	.	.	26	1			
1953.	7	27	-.0008515	.0030617	.	.	.
>	.	.	26	1			
1954.	7	28	.0014259	.0035307	.	.	.
>	.	.	26	1			
1955.	7	29	-.0003293	-.0012736	.	.	.
>	.	.	26	1			
1956.	7	30	.0005571	.0028467	.	.	.
>	.	.	26	1			
1957.	7	31	.0014392	.0048078	.	.	.
>	.	.	26	1			
1958.	7	32	-.0000707	-5.40e-08	.	.	.
>	.	.	26	1			
1959.	7	33	.0005057	.001972	.	.	.
>	.	.	26	1			
1960.	7	34	.000237	.0038411	.	.	.
>	.	.	26	1			
1961.	7	35	.0003181	.0026726	.	.	.
>	.	.	26	1			
1962.	7	36	.0000125	.0011848	.	.	.
>	.	.	26	1			
1963.	7	37	.0005541	.0023855	.	.	.
>	.	.	26	1			
1964.	7	38	.000479	.0022479	.	.	.
>	.	.	26	1			
1965.	7	39	-.0000889	.0010236	.	.	.
>	.	.	26	1			
1966.	7	40	-.0000436	.0014116	.0011023	26	.242287
> 10	1	.3846154	26	1			
1967.	7	41	-.0001271	.002589	.0052314	25	.5286711
> 8	.9615384	.3076923	26	1			
1968.	7	42	-.0001318	.0008512	.0068442	25	.3818182
> 8	.9615384	.3076923	26	1			
1969.	7	43	.0002639	.0015339	.0152248	24	.3578847
> 9	.9230769	.3461539	26	1			
1970.	7	44	.00034	.0007829	.0255873	23	.3012122
> 9	.8846154	.3461539	26	1			
1971.	7	45	.0002204	.0009861	.0260173	23	.2707187
> 9	.8846154	.3461539	26	1			
1972.	7	46	.0001759	.0011573	.0248619	23	.2553124
> 10	.8846154	.3846154	26	1			
1973.	7	47	-.0000253	.0014191	.0218004	24	.2540088
> 10	.9230769	.3846154	26	1			
1974.	7	48	-.0001915	.0016353	.0217409	24	.2619181

> 10	.9230769	.3846154	26	1			
1975.	7	49	.0001605	.0019933	.0210607	24	.2840395
> 8	.9230769	.3076923	26	1			
1976.	7	50	.0004393	.0017049	.0293188	24	.2903501
> 8	.9230769	.3076923	26	1			
1977.	7	51	.0006813	.0000208	.0492992	21	.2661586
> 9	.8076923	.3461539	26	1			
1978.	7	52	.0007675	.0002273	.0717754	19	.2461682
> 9	.7307692	.3461539	26	1			
1979.	7	53	.0003762	.0009603	.0725096	19	.2365938
> 11	.7307692	.4230769	26	1			
1980.	7	54	.0007372	.0049974	.0886835	17	.4232756
> 8	.6538461	.3076923	26	1			
1981.	7	55	.0007172	.0030209	.1017786	16	.4661778
> 8	.6153846	.3076923	26	1			
1982.	7	56	.0007653	.003586	.1157663	15	.5307389
> 7	.5769231	.2692308	26	1			
1983.	7	57	.0004054	.0004113	.1146294	15	.5023962
> 7	.5769231	.2692308	26	1			
1984.	7	58	.000794	.0028765	.1278335	15	.5289071
> 6	.5769231	.2307692	26	1			
1985.	7	59	.0006713	.0013066	.1345035	14	.5128419
> 6	.5384616	.2307692	26	1			
1986.	7	60	.000209	.0013766	.1293048	14	.4993934
> 7	.5384616	.2692308	26	1			
1987.	7	61	.00033	.0024938	.1262971	14	.5110685
> 6	.5384616	.2307692	26	1			
1988.	7	62	.000478	.0023863	.1265661	14	.5189543
> 6	.5384616	.2307692	26	1			
1989.	7	63	.0004464	.0019216	.1261073	14	.516039
> 5	.5384616	.1923077	26	1			
1990.	7	64	.0006746	.0011897	.1316169	14	.5022814
> 5	.5384616	.1923077	26	1			
1991.	7	65	.000543	.0016226	.1331296	14	.4952766
> 5	.5384616	.1923077	26	1			
1992.	7	66	.000186	.0005692	.1289416	14	.4783923
> 5	.5384616	.1923077	26	1			
1993.	7	67	.0002025	.0003	.125186	14	.4616978
> 5	.5384616	.1923077	26	1			
1994.	7	68	.0005038	.002214	.1259438	14	.4663301
> 5	.5384616	.1923077	26	1			
1995.	7	69	.000336	.0014638	.1239277	14	.4594712
> 4	.5384616	.1538462	26	1			
1996.	7	70	.0003061	.0013649	.1216826	14	.4519569
> 4	.5384616	.1538462	26	1			
1997.	7	71	.0002378	.0010711	.1189049	14	.4421924
> 4	.5384616	.1538462	26	1			
1998.	7	72	.0002785	.0008604	.1166642	13	.4315204
> 4	.5	.1538462	26	1			
1999.	7	73	.0001392	.0002508	.1135633	13	.4190537
> 4	.5	.1538462	26	1			
2000.	7	74	.0001077	.0001178	.1105108	13	.407129
> 4	.5	.1538462	26	1			
2001.	7	75	.0001987	.001254	.1080766	14	.4011314
> 4	.5384616	.1538462	26	1			
2002.	7	76	.0000188	.0001225	.1051612	14	.3903393
> 4	.5384616	.1538462	26	1			

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- 9 .
10. translate synth_output.smcl synth_output.log, replace
(file **synth_output.log** not found)
file **synth_output.log** saved as .log format
11. translate synth_output.smcl synth_output.pdf, replace