

Gerrymandering in the State of Wisconsin

For this project I will be using the `state.x77` package provided by R. This package is a matrix with 50 rows and 8 columns giving the following statistics in the respective columns.

Population: population estimate as of July 1, 1975

Income: per capita income (1974)

Illiteracy: illiteracy (1970, percent of population)

Life Exp: life expectancy in years (1969-71)

Murder: murder and non-negligent manslaughter rate per 100,000 population (1976)

HS Grad: percent high-school graduates (1970)

Frost: mean number of days with minimum temperature below freezing (1931-1960) in capital or large city

Area: land area in square miles

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state.x77
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	Population	Income	Illiteracy	Life Exp	Murder	HS Grad	Frost
Alabama	3615	3624	2.1	69.05	15.1	41.3	20
Alaska	365	6315	1.5	69.31	11.3	66.7	152
Arizona	2212	4530	1.8	70.55	7.8	58.1	15
Arkansas	2110	3378	1.9	70.66	10.1	39.9	65
California	21198	5114	1.1	71.71	10.3	62.6	20
Colorado	2541	4884	0.7	72.06	6.8	63.9	166
Connecticut	3100	5348	1.1	72.48	3.1	56.0	139
Delaware	579	4809	0.9	70.06	6.2	54.6	103
Florida	8277	4815	1.3	70.66	10.7	52.6	11
Georgia	4931	4091	2.0	68.54	13.9	40.6	60
Hawaii	868	4963	1.9	73.60	6.2	61.9	0
Idaho	813	4119	0.6	71.87	5.3	59.5	126

Illinois	11197	5107	0.9	70.14	10.3	52.6	127
Indiana	5313	4458	0.7	70.88	7.1	52.9	122
Iowa	2861	4628	0.5	72.56	2.3	59.0	140
Kansas	2280	4669	0.6	72.58	4.5	59.9	114
Kentucky	3387	3712	1.6	70.10	10.6	38.5	95
Louisiana	3806	3545	2.8	68.76	13.2	42.2	12
Maine	1058	3694	0.7	70.39	2.7	54.7	161
Maryland	4122	5299	0.9	70.22	8.5	52.3	101
Massachusetts	5814	4755	1.1	71.83	3.3	58.5	103
Michigan	9111	4751	0.9	70.63	11.1	52.8	125
Minnesota	3921	4675	0.6	72.96	2.3	57.6	160
Mississippi	2341	3098	2.4	68.09	12.5	41.0	50
Missouri	4767	4254	0.8	70.69	9.3	48.8	108
Montana	746	4347	0.6	70.56	5.0	59.2	155
Nebraska	1544	4508	0.6	72.60	2.9	59.3	139
Nevada	590	5149	0.5	69.03	11.5	65.2	188
New Hampshire	812	4281	0.7	71.23	3.3	57.6	174
New Jersey	7333	5237	1.1	70.93	5.2	52.5	115
New Mexico	1144	3601	2.2	70.32	9.7	55.2	120
New York	18076	4903	1.4	70.55	10.9	52.7	82
North Carolina	5441	3875	1.8	69.21	11.1	38.5	80
North Dakota	637	5087	0.8	72.78	1.4	50.3	186
Ohio	10735	4561	0.8	70.82	7.4	53.2	124
Oklahoma	2715	3983	1.1	71.42	6.4	51.6	82
Oregon	2284	4660	0.6	72.13	4.2	60.0	44
Pennsylvania	11860	4449	1.0	70.43	6.1	50.2	126
Rhode Island	931	4558	1.3	71.90	2.4	46.4	127
South Carolina	2816	3635	2.3	67.96	11.6	37.8	65
South Dakota	681	4167	0.5	72.08	1.7	53.3	172
Tennessee	4173	3821	1.7	70.11	11.0	41.8	70
Texas	12237	4188	2.2	70.90	12.2	47.4	35
Utah	1203	4022	0.6	72.90	4.5	67.3	137
Vermont	472	3907	0.6	71.64	5.5	57.1	168
Virginia	4981	4701	1.4	70.08	9.5	47.8	85
Washington	3559	4864	0.6	71.72	4.3	63.5	32
West Virginia	1799	3617	1.4	69.48	6.7	41.6	100
Wisconsin	4589	4468	0.7	72.48	3.0	54.5	149
Wyoming	376	4566	0.6	70.29	6.9	62.9	173
Area							
Alabama	50708						
Alaska	566432						
Arizona	113417						
Arkansas	51945						

California	156361
Colorado	103766
Connecticut	4862
Delaware	1982
Florida	54090
Georgia	58073
Hawaii	6425
Idaho	82677
Illinois	55748
Indiana	36097
Iowa	55941
Kansas	81787
Kentucky	39650
Louisiana	44930
Maine	30920
Maryland	9891
Massachusetts	7826
Michigan	56817
Minnesota	79289
Mississippi	47296
Missouri	68995
Montana	145587
Nebraska	76483
Nevada	109889
New Hampshire	9027
New Jersey	7521
New Mexico	121412
New York	47831
North Carolina	48798
North Dakota	69273
Ohio	40975
Oklahoma	68782
Oregon	96184
Pennsylvania	44966
Rhode Island	1049
South Carolina	30225
South Dakota	75955
Tennessee	41328
Texas	262134
Utah	82096
Vermont	9267
Virginia	39780
Washington	66570

West Virginia	24070
Wisconsin	54464
Wyoming	97203