				Positive represents leanign towards Democrats, and negative represents leaning toward Republican. This is used to determine the Tiers of the State. Use 1972	To find out the total electoral vote for D	To find out the total electoral vote for R	This is originally used to identify tier 1 states. If a state can change the election outcome by swinging itself, then it deserves to be tier 1. Tier 2 states can swing but	Tiers allow me to focus on analyzing a few states instead of 50 states.		Website link	https://nces.ed.gov/pubs2015/2015015 Page 46 and 47		https://nces.ed.gov/programs/diges								
											% OF POPULATION Education 2012		% OF POPULATION Education 2016		% OF POPULATION Education 2020	% OF POPULATION Education 2020	% OF POPULATION Education 2022	% OF POPULATION Education 2022			
STATE	2012	2016	2020	Difference between D and R by State	2020 electoral vote contribution to Democrats	2020 electoral vote contribution to Republicans	Can it change the outcome of 2020 election just by itself (if it swings)?	State Tier	2016 - 2020 ELECTORAL VOTES	2024 ELECTORAL VOTES	HS	CD	HS	CD	HS	CD	HS	CD	2016 electoral vote contribution to Democrats	2016 electoral vote contribution to Republicans	Can it change the outcome of 2016 election just by itself (if it swings)?
ALABAMA	R	R	R	-3	0	9	No	3	9	9	83.8	23.4	84.89	24.72	85	25	86	26	0	9	No
ALASKA	R	R	R	-3	0	3	No	3	3	3	91.8	28.9	92.49	29.3	92	29	93	30	0	3	No
ARIZONA	R	R	D	-1	11	0	No	3	11	11	85.8	27.5	86.75	28.65	86	28	87	30	0	11	No
ARKANSAS	R	R	R	-3	0	6	No	2	6	6	85.1	21.2	85.82	22.1	86	22	87	23	0	6	No
CALIFORNIA	D	D	D	3	55	0	Yes	1	55	54	81.4	31	82.42	32.97	83	33	83	34	55	0	Yes
COLORADO	D	D	D	3	9	0	No	2	9	10	90.4	37.6	91.4	39.97	91	39	92	41	9	0	No
CONNECTICUT	D	D	D	3	7	0	No	2	7	7	89.9	37.2	90.67	38.81	90	39	91	39	7	0	No
DELAWARE	D	D	D	3	3	0	No	3	3	3	88.3	30.2	89.71	31.71	89	31	90	32	3	0	No
D.C.	D	D	D	3	3	0	No	2	3	3	89.2	53.7	89.95	57.29	90	57	91	60	3	0	No
FLORIDA	D	R	R	-1	0	29	No	1	29	30	86.4	26.8	87.43	28.66	87	29	88	30	0	29	No
GEORGIA	R	R	D	-1	16	0	No	1	16	16	85.2	28.3	86.46	30.57	86	30	87	31	0	16	No
HAWAII	D	D	D	3	4	0	No	3	4	4	90	30.1	92.26	33.04	92	32	92	33	4	0	No
IDAHO	R	R	R	-3	0	4	No	3	4	4	89.8	25.8	90.52	27.29	90	27	91	28	0	4	No
ILLINOIS	D	D	D	3	20	0	No	2	20	19	87.7	31.5	88.7	33.83	89	33	89	35	20	0	No
INDIANA	R	R	R	-3	0	11	No	3	11	11	87.3	23.3	88.21	25.72	88	26	89	27	0	11	No
IOWA	D	R	R	-1	0	6	No	1	6	6	92.1	26.8	91.59	28.95	92	28	92	29	0	6	No
KANSAS	R	R	R	-3	0	6	No	3	6	6	90.1	30.2	90.52	33.02	91	32	91	33	0	6	No
KENTUCKY	R	R	R	-3	0	8	No	2	8	8	83.5	21.5	85.46	23.39	85	23	86	24	0	8	No
LOUISANA	R	R	R	-3	0	8	No	2	8	8	83.2	22.2	84.23	23.26	84	23	85	24	0	8	No
MAINE	D	D	D	3	4	0	No	2	4	4	92.1	28	92.5	30.64	92	30	93	32	4	0	No
MARYLAND	D	D	D	3	10	0	No	2	10	10	89.2	37	90.17	39.17	89	39	90	40	10	0	No
MASSACHUSETTS	D	D	D	3	11	0	No	3	11	11	89.7	39.5	90.5	42.79	90	42	91	44	11	0	No
MICHIGAN	D	R	D	1	16	0	No	1	16	15	89.6	26.3	90.36	28.19	90	28	91	29	0	16	No
MINNESOTA	D	D	D	3	10	0	No	3	10	10	92.4	32.7	92.88	34.45	93	35	93	36	10	0	No
MISSISSIPPI	R	R	R	-3	0	6	No	3	6	6	82.5	20.6	83.99	21.9	83	21	85	22	0	6	No
MISSOURI	R	R	R	-3	0	10	No	2	10	10	87.8	26	89.68	28.55	89	28	90	29	0	10	No
MONTANA	R	R	R	-3	0	3	No	3	3	4	92.8	28.5	92.37	31.32	93	31	94	32	0	3	No
NEBRASKA	R	R	R	-3	0	5	No	3	5	5	90.8	29.7	90.79	32.34	91	31	91	32	0	5	No
NEVADA	D	D	D	3	6	0	No	2	6	6	85.6	22.6	86	23.38	86	24	87	25	6	0	No
NEW HAMPSHIRE	D	D	D	3	4	0	No	2	4	4	92	35.3	93.05	36.67	93	35	93	37	4	0	No
NEW JERSEY	D	D	D	3	14	0	No	2	14	14	88.4	36.3	89.16	38.72	89	38	90	40	14	0	No
NEW MEXICO	D	D	D	3	5	0	No	2	5	5	84.5	26.2	85.64	27.38	85	27	86	27	5	0	No
NEW YORK	D	D	D	3	29	0	No	2	29	28	85.4	33.5	86.3	35.66	86	35	87	37	29	0	No
NORTH CAROLINA	R	R	R	-3	0	15	No	3	15	16	85.1	27.3	87.2	30.47	87	30	88	31	0	15	No
NORTH DAKOTA	R	R	R	-3	0	3	No	3	3	3	91.8	28.8	91.25	29.16	82	29	93	30	0	3	No
OHIO	D	R	R	-1	0	18	No	1	18	17	88.9	25.2	90.08	27.76	90	27	90	28	0	18	No
OKLAHOMA	R	R	R	-3	0	7	No	3	7	7	86.6	23.7	87.94	25.54	88	25	88	26	0	7	No
OREGON	D	D	D	3	7	0	No	2	7	8	90.1	30.2	90.28	32.59	90	32	91	34	7	0	No
PENNSYLVANIA	D	R	D	1	20	0	No	1	20	19	88.9	28.1	89.92	30.84	90	30	91	31	0	20	No
RHODE ISLAND	D	D	D	3	4	0	No	3	4	4	85.8	31.2	88.39	34.43	87	33	89	34	4	0	No
SOUTH CAROLINA	R	R	R	-3	0	9	No	3	9	9	84.9	25.3	86.59	27.5	87	27	88	28	0	9	No
SOUTH DAKOTA	R	R	R	-3	0	3	No	3	3	3	90.6	26.7	91.42	29.63	91	28	92	29	0	3	No
TENNESSEE	R	R	R	-3	0	11	No	2	11	11	85.1	24.6	86.91	26.18	87	27	88	27	0	11	No
TEXAS	R	R	R	-3	0	38	Yes	1	38	40	81.5	26.9	82.95	28.92	83	29	84	30	0	38	Yes
UTAH	R	R	R	-3	0	6	No	3	6	6	91.3	30.7	91.91	32.37	92	33	92	34	0	6	No
VERMONT	D	D	D	3	3	0	No	2	3	3	92.3	35.1	91.86	36.11	92	37	93	38	3	0	No
VIRGINA	D	D	D	3	13	0	No	2	13	13	88.1	35.7	89.11	38.15	89	38	90	39	13	0	No
WASHINGTON	D	D	D	3	12	0	No	2	12	12	90.6	31.8	90.75	34.89	91	35	91	36	12	0	No
WEST VIRGINA	R	R	R	-3	0	5	No	2	5	4	83.9	18.2	86.15	21.1	86	20	87	21	0	5	No
WISCONSIN	D	R	D	1	10	0	No	1	10	10	90.9	27.5	92.22	29.83	92	29	92	30	0	10	No
WYOMING	R	R	R	-3	0	3	No	3	3	3	91.5	25.4	93.25	26.53	93	27	93	27	0	3	No
TOTAL ELECTORAL VOTES					306	232			538	538									233	305	
				2020 electoral vote contributed to Democrats	306																
Democrats																					
				2020 electoral vote contributed to Republicans		232															
Republican																					

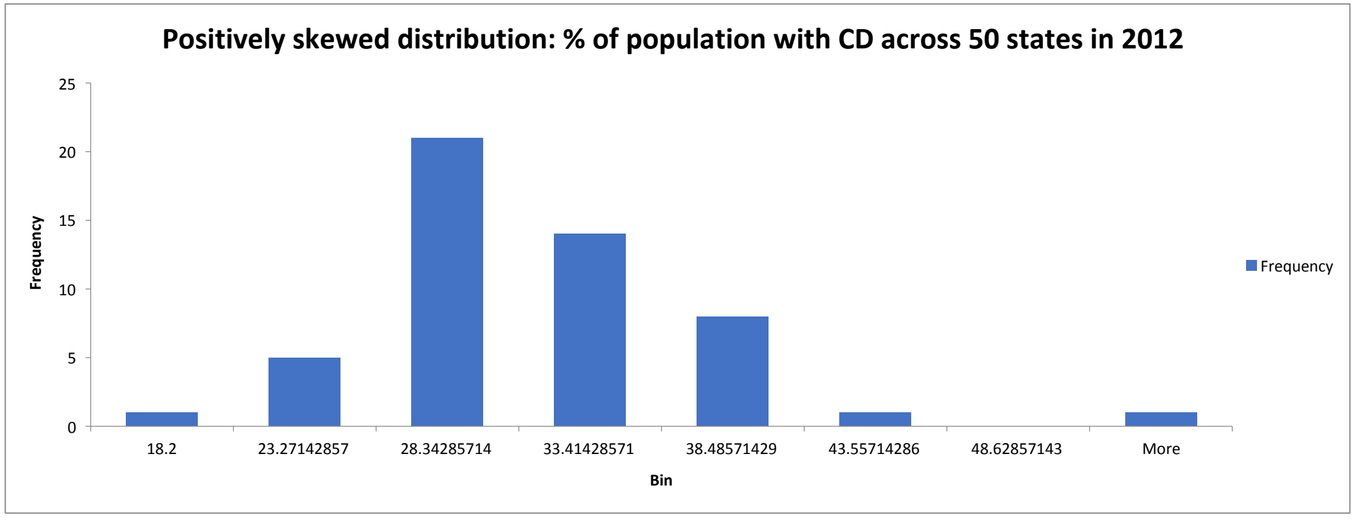
POPULATION Education 2012

Pasted Value to ensure it wouldn't change if source data was modified

Row Labels	Sum of CD	% OF POPULATION Education 2012	Probability Distribution	State Tier
ALABAMA	23.4	23.4	0.042678224	3
ALASKA	28.9	28.9	0.066955732	3
ARIZONA	27.5	27.5	0.064734591	3
ARKANSAS	21.2	21.2	0.028072982	2
CALIFORNIA	31	31	0.063500539	1
COLORADO	37.6	37.6	0.023933524	2
CONNECTICUT	37.2	37.2	0.026294756	2
D.C.	53.7	53.7	1.28327E-05	3
DELAWARE	30.2	30.2	0.065751978	2
FLORIDA	26.8	26.8	0.062346669	1
GEORGIA	28.3	28.3	0.066442592	1
HAWAII	30.1	30.1	0.065955252	3
IDAHO	25.8	25.8	0.057688496	3
ILLINOIS	31.5	31.5	0.061566122	2
INDIANA	23.3	23.3	0.041997429	3
IOWA	26.8	26.8	0.062346669	1
KANSAS	30.2	30.2	0.065751978	3
KENTUCKY	21.5	21.5	0.029962934	2
LOUISANA	22.2	22.2	0.03454008	2
MAINE	28	28	0.065936117	2
MARYLAND	37	37	0.027514771	2
MASSACHUSETTS	39.5	39.5	0.01439336	3
MICHIGAN	26.3	26.3	0.060184051	1
MINNESOTA	32.7	32.7	0.055540533	3
MISSISSIPPI	20.6	20.6	0.024456358	3
MISSOURI	26	26	0.05872369	2
MONTANA	28.5	28.5	0.066688348	3
NEBRASKA	29.7	29.7	0.066586698	3
NEVADA	22.6	22.6	0.037231423	2
NEW HAMPSHIRE	35.3	35.3	0.038656132	2
NEW JERSEY	36.3	36.3	0.031963071	2
NEW MEXICO	26.2	26.2	0.059710101	2
NEW YORK	33.5	33.5	0.050698569	2
NORTH CAROLINA	27.3	27.3	0.064133468	3
NORTH DAKOTA	28.8	28.8	0.066917073	3
OHIO	25.2	25.2	0.054322392	1
OKLAHOMA	23.7	23.7	0.044711862	3
OREGON	30.2	30.2	0.065751978	2
PENNSYLVANIA	28.1	28.1	0.066123147	1
RHODE ISLAND	31.2	31.2	0.062772642	3
SOUTH CAROLINA	25.3	25.3	0.054908129	3
SOUTH DAKOTA	26.7	26.7	0.061942926	3
TENNESSEE	24.6	24.6	0.050636261	2
TEXAS	26.9	26.9	0.062735358	1
UTAH	30.7	30.7	0.0644718	3
VERMONT	35.1	35.1	0.040018738	2
VIRGINA	35.7	35.7	0.035946732	2
WASHINGTON	31.8	31.8	0.060229805	2
WEST VIRGINA	18.2	18.2	0.012727274	2
WISCONSIN	27.5	27.5	0.064734591	1
WYOMING	25.4	25.4	0.05548454	3
Grand Total	**1481.8**			

			round to 2 decimal	
Mean	29.054902	29.05		To find out the mean
Median	28.1	28.1		To find out the median
Mode	30.2	30.2		To find out the mode
Variance	34.7816917	34.78		To find out the variance
Standard Deviation	5.95628454	5.96		To find out the standard deviation
Minimum value	18.2			To find out the minimum value in this pool
Maximum value	53.7			To find out the maximum value in this pool
Bin Width	5.07142857			
Level of Significance	0.1			
Sample size	51			
Confidence value	1.37188468			
Upper confidence	30.4267866			
Lower confidence	27.6830173			

Bin	*Frequency*
18.2	1
23.27142857	5
28.34285714	21
33.41428571	14
38.48571429	8
43.55714286	1
48.62857143	0
More	1



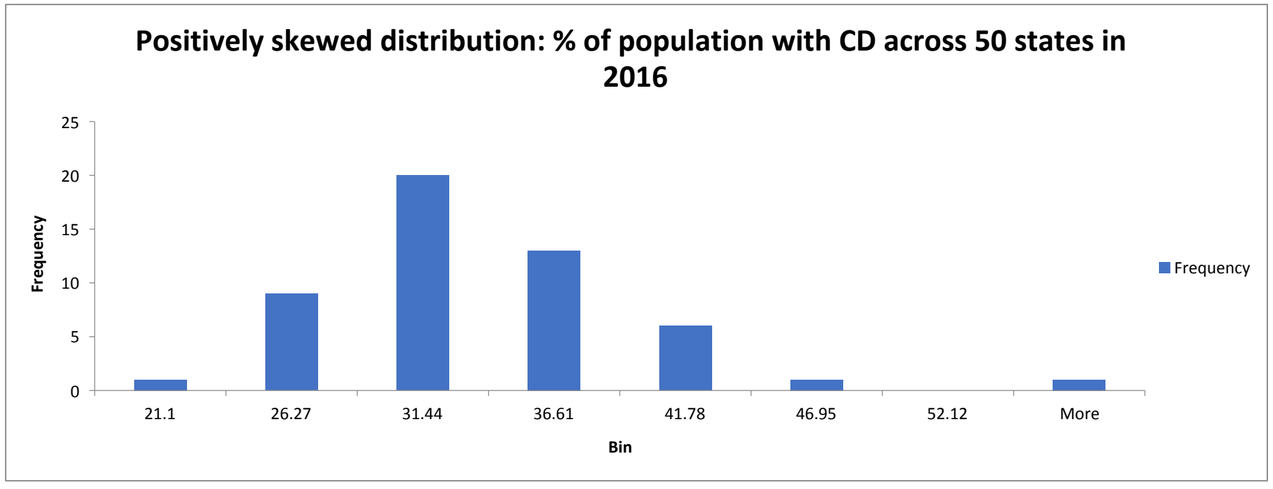
% OF POPULATION Education 2016

ensure it wouldn't change if source data was modified

Row Labels	Sum of CD2	% OF POPULATION Education 2016	Probability Distribution
ALABAMA	24.72	24.72	0.037876722
ALASKA	29.3	29.3	0.061069543
ARIZONA	28.65	28.65	0.058953126
ARKANSAS	22.1	22.1	0.022667199
CALIFORNIA	32.97	32.97	0.060904717
COLORADO	39.97	39.97	0.023412278
CONNECTICUT	38.81	38.81	0.029902382
D.C.	57.29	57.29	1.03067E-05
DELAWARE	31.71	31.71	0.063364144
FLORIDA	28.66	28.66	0.058989931
GEORGIA	30.57	30.57	0.063426566
HAWAII	33.04	33.04	0.060698928
IDAHO	27.29	27.29	0.052886262
ILLINOIS	33.83	33.83	0.057920942
INDIANA	25.72	25.72	0.044000927
IOWA	28.95	28.95	0.060000817
KANSAS	33.02	33.02	0.060758428
KENTUCKY	23.39	23.39	0.029831102
LOUISANA	23.26	23.26	0.029072574
MAINE	30.64	30.64	0.063483238
MARYLAND	39.17	39.17	0.027817639
MASSACHUSETTS	42.79	42.79	0.011195936
MICHIGAN	28.19	28.19	0.057127257
MINNESOTA	34.45	34.45	0.055212167
MISSISSIPPI	21.9	21.9	0.021640061
MISSOURI	28.55	28.55	0.058578139
MONTANA	31.32	31.32	0.063621972
NEBRASKA	32.34	32.34	0.06243696
NEVADA	23.38	23.38	0.029772513
NEW HAMPSHIRE	36.67	36.67	0.042923443
NEW JERSEY	38.72	38.72	0.030431841
NEW MEXICO	27.38	27.38	0.05334528
NEW YORK	35.66	35.66	0.048887356
NORTH CAROLINA	30.47	30.47	0.063331985
NORTH DAKOTA	29.16	29.16	0.060662489
OHIO	27.76	27.76	0.055202025
OKLAHOMA	25.54	25.54	0.042910327
OREGON	32.59	32.59	0.061899187
PENNSYLVANIA	30.84	30.84	0.063601697
RHODE ISLAND	34.43	34.43	0.055305985
SOUTH CAROLINA	27.5	27.5	0.053946196
SOUTH DAKOTA	29.63	29.63	0.061917485
TENNESSEE	26.18	26.18	0.046740098
TEXAS	28.92	28.92	0.059901392
UTAH	32.37	32.37	0.062377422
VERMONT	36.11	36.11	0.046282384
VIRGINA	38.15	38.15	0.033847275
WASHINGTON	34.89	34.89	0.05305107
WEST VIRGINA	21.1	21.1	0.01779417
WISCONSIN	29.83	29.83	0.062352905
WYOMING	26.53	26.53	0.048761612
Grand Total	**1586.41**		

		round to 2 decimal	
Mean	31.1060784	31.11	To find out the mean
Median	30.47	30.47	To find out the median
Mode	#N/A	#N/A	To find out the mode. It means that there is no mode, or maybe more than one mode
Variance	38.5034513	38.5	To find out the variance
Standard Deviation	6.26685889	6.27	To find out the standard deviation
Minimum value	21.1		To find out the minimum value in this pool
Maximum value	57.29		To find out the maximum value in this pool
Bin Width	5.17		
Level of Significance	0.1		
Sample size	51		
Confidence value	1.44341789		
Upper confidence	32.5494963		
Lower confidence	29.6626605		

Bin	*Frequency*
21.1	1
26.27	9
31.44	20
36.61	13
41.78	6
46.95	1
52.12	0
More	1



% OF POPULATION Education 2020

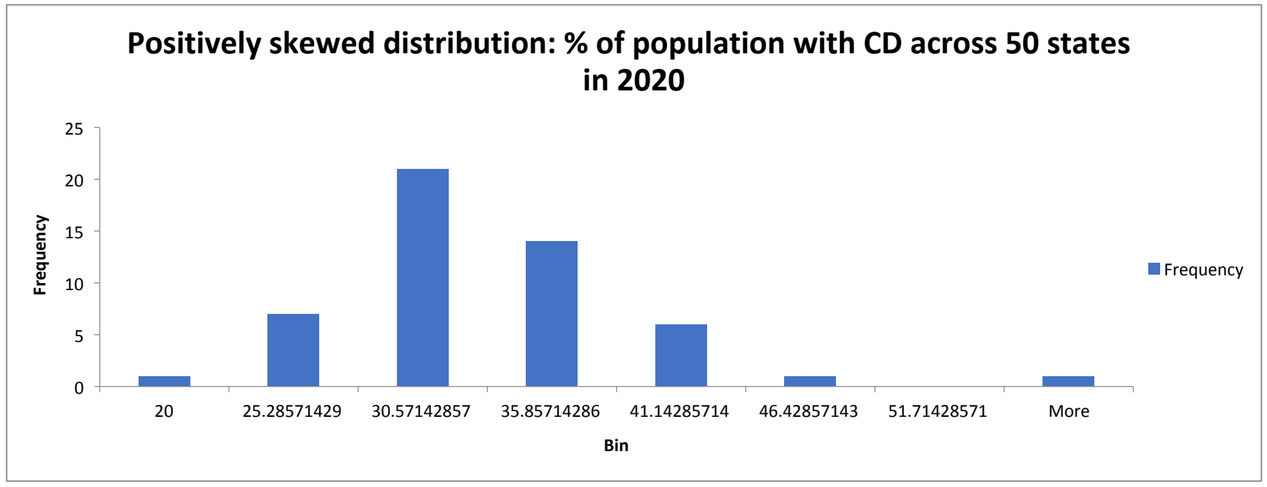
Pasted value to ensure it wouldn't change if source data was modified

Row Labels	Sum of CD3	% OF POPULATION Education 2020	Probability Distribution
ALABAMA	25	25	0.042095836
ALASKA	29	29	0.061651004
ARIZONA	28	28	0.058248167
ARKANSAS	22	22	0.024131916
CALIFORNIA	33	33	0.059812131
COLORADO	39	39	0.026406793
CONNECTICUT	39	39	0.026406793
D.C.	57	57	8.74972E-06
DELAWARE	31	31	0.063932429
FLORIDA	29	29	0.061651004
GEORGIA	30	30	0.063594536
HAWAII	32	32	0.062638935
IDAHO	27	27	0.053634734
ILLINOIS	33	33	0.059812131
INDIANA	26	26	0.048131761
IOWA	28	28	0.058248167
KANSAS	32	32	0.062638935
KENTUCKY	23	23	0.029807061
LOUISANA	23	23	0.029807061
MAINE	30	30	0.063594536
MARYLAND	39	39	0.026406793
MASSACHUSETTS	42	42	0.012395743
MICHIGAN	28	28	0.058248167
MINNESOTA	35	35	0.05048291
MISSISSIPPI	21	21	0.019040845
MISSOURI	28	28	0.058248167
MONTANA	31	31	0.063932429
NEBRASKA	31	31	0.063932429
NEVADA	24	24	0.035881308
NEW HAMPSHIRE	35	35	0.05048291
NEW JERSEY	38	38	0.032273065
NEW MEXICO	27	27	0.053634734
NEW YORK	35	35	0.05048291
NORTH CAROLINA	30	30	0.063594536
NORTH DAKOTA	29	29	0.061651004
OHIO	27	27	0.053634734
OKLAHOMA	25	25	0.042095836
OREGON	32	32	0.062638935
PENNSYLVANIA	30	30	0.063594536
RHODE ISLAND	33	33	0.059812131
SOUTH CAROLINA	27	27	0.053634734
SOUTH DAKOTA	28	28	0.058248167
TENNESSEE	27	27	0.053634734
TEXAS	29	29	0.061651004
UTAH	33	33	0.059812131
VERMONT	37	37	0.038440277
VIRGINA	38	38	0.032273065
WASHINGTON	35	35	0.05048291
WEST VIRGINA	20	20	0.014642067
WISCONSIN	29	29	0.061651004
WYOMING	27	27	0.053634734
Grand Total	**1566**		

round to 2 decimal

Mean	30.7058824	30.71	To find out the mean
Median	30	30	To find out the median
Mode	27	27	To find out the mode
Variance	38.0899654	38.09	To find out the variance
Standard Deviation	6.23311838	6.23	To find out the standard deviation
Minimum value	20		To find out the minimum value in this pool
Maximum value	57		To find out the maximum value in this pool
Bin Width	5.28571429		
Level of Significance	0.1		
Sample size	51		
Confidence value	1.43564659		
Upper confidence	32.1415289		
Lower confidence	29.2702358		

Bin	*Frequency*
20	1
25.28571429	7
30.57142857	21
35.85714286	14
41.14285714	6
46.42857143	1
51.71428571	0
More	1



% OF POPULATION Education 2022

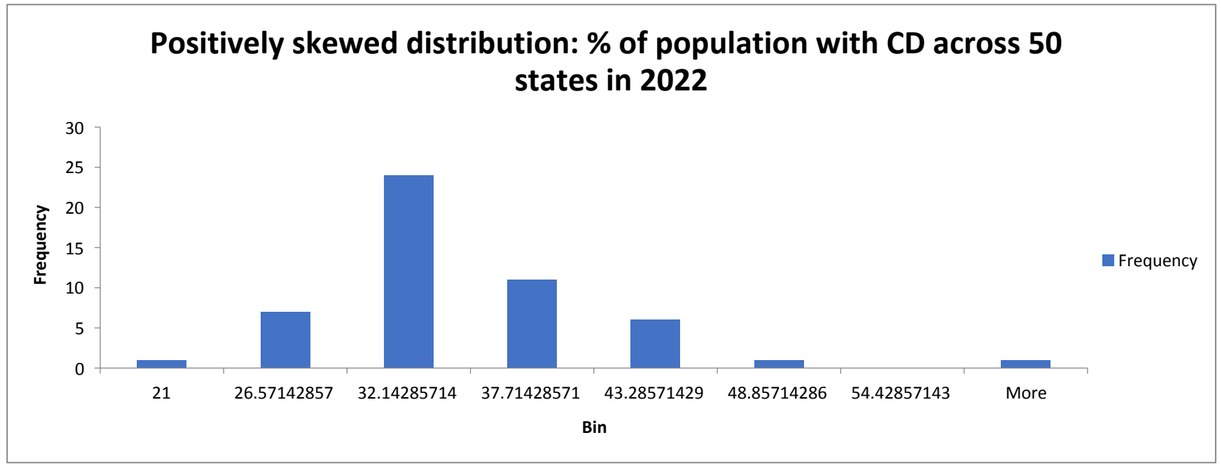
Pasted Value to ensure it wouldn't change if source data was modified

Row Labels	Sum of CD4	% OF POPULATION Education 2022	Probability Distribution
ALABAMA	26	26	0.04092145
ALASKA	30	30	0.058598029
ARIZONA	30	30	0.058598029
ARKANSAS	23	23	0.024462165
CALIFORNIA	34	34	0.057745539
COLORADO	41	41	0.022900993
CONNECTICUT	39	39	0.033522251
D.C.	60	60	5.80992E-06
DELAWARE	32	32	0.060951977
FLORIDA	30	30	0.058598029
GEORGIA	31	31	0.060465433
HAWAII	33	33	0.060023993
IDAHO	28	28	0.051310244
ILLINOIS	35	35	0.054271079
INDIANA	27	27	0.046360628
IOWA	29	29	0.055477299
KANSAS	33	33	0.060023993
KENTUCKY	24	24	0.029725132
LOUISANA	24	24	0.029725132
MAINE	32	32	0.060951977
MARYLAND	40	40	0.028032738
MASSACHUSETTS	44	44	0.010853243
MICHIGAN	29	29	0.055477299
MINNESOTA	36	36	0.04982817
MISSISSIPPI	22	22	0.01966629
MISSOURI	29	29	0.055477299
MONTANA	32	32	0.060951977
NEBRASKA	32	32	0.060951977
NEVADA	25	25	0.035286548
NEW HAMPSHIRE	37	37	0.044692833
NEW JERSEY	40	40	0.028032738
NEW MEXICO	27	27	0.046360628
NEW YORK	37	37	0.044692833
NORTH CAROLINA	31	31	0.060465433
NORTH DAKOTA	30	30	0.058598029
OHIO	28	28	0.051310244
OKLAHOMA	26	26	0.04092145
OREGON	34	34	0.057745539
PENNSYLVANIA	31	31	0.060465433
RHODE ISLAND	34	34	0.057745539
SOUTH CAROLINA	28	28	0.051310244
SOUTH DAKOTA	29	29	0.055477299
TENNESSEE	27	27	0.046360628
TEXAS	30	30	0.058598029
UTAH	34	34	0.057745539
VERMONT	38	38	0.039161318
VIRGINA	39	39	0.033522251
WASHINGTON	36	36	0.04982817
WEST VIRGINA	21	21	0.01544566
WISCONSIN	30	30	0.058598029
WYOMING	27	27	0.046360628
Grand Total	**1624**		

round to 2 decimal

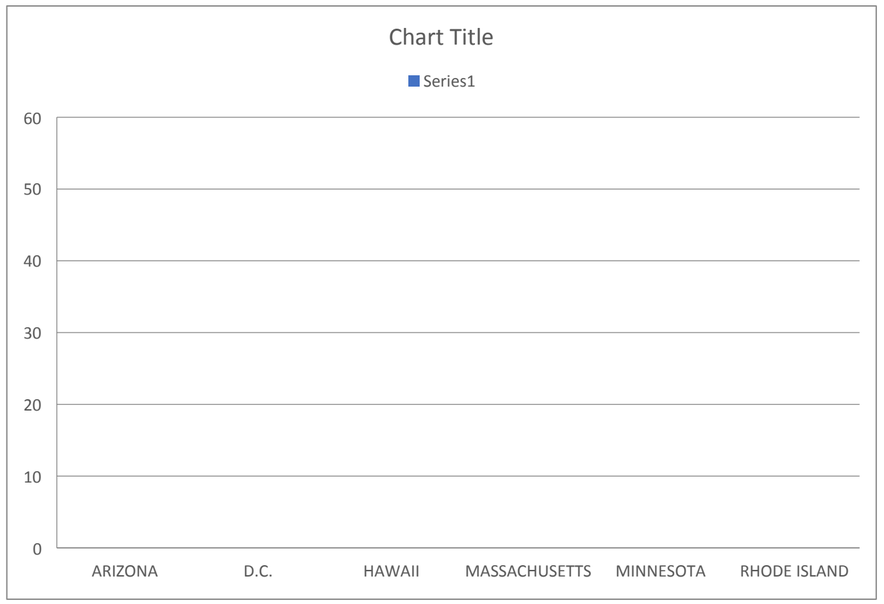
Mean	31.8431373	31.84	To find out the mean
Median	31	31	To find out the median
Mode	30	30	To find out the mode
Variance	41.9753941	41.98	To find out the variance
Standard Deviation	6.54330971	6.54	To find out the standard deviation
Minimum value	21		To find out the minimum value in this pool
Maximum value	60		To find out the maximum value in this pool
Bin Width	5.57142857		
Level of Significance	0.1		
Sample size	51		
Confidence value	1.50709159		
Upper confidence	33.3502288		
Lower confidence	30.3360457		

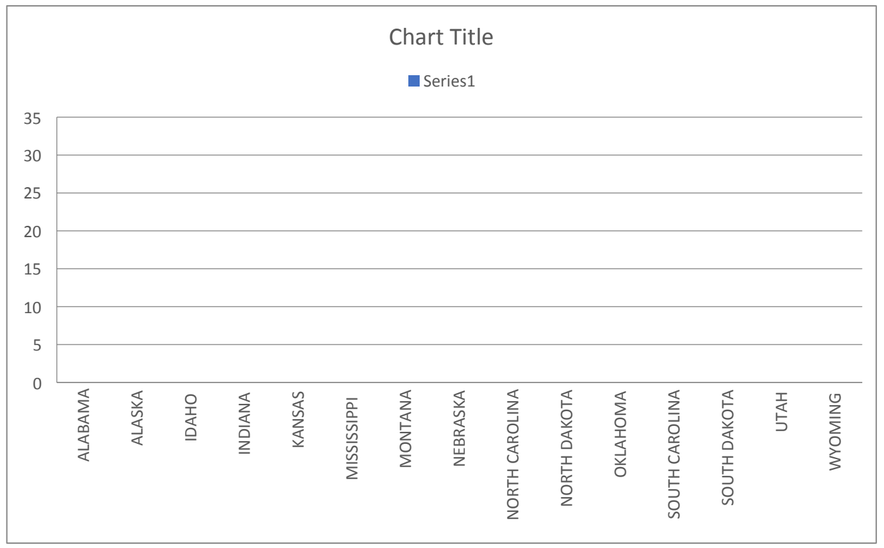
Bin	*Frequency*
21	1
26.57142857	7
32.14285714	24
37.71428571	11
43.28571429	6
48.85714286	1
54.42857143	0
More	1

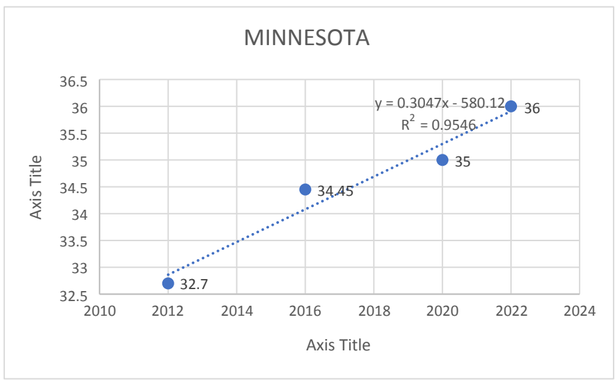


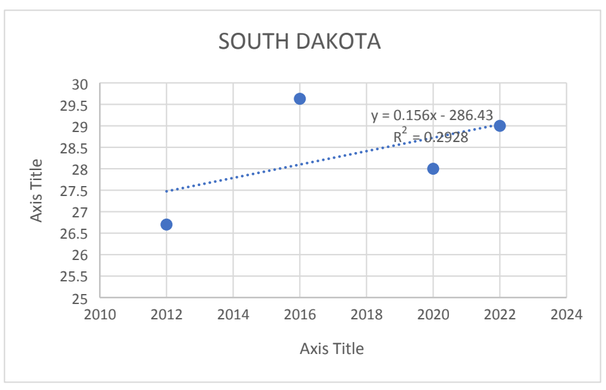
Row Labels	% OF POPULATION Education 2012	% OF POPULATION Education 2016	% OF POPULATION Education 2020	% OF POPULATION Education 2022	Average	2020 State	State Tier	Change in education rate 2012 - 2020		
ARIZONA	27.5	28.65	28	30	28.5375	D	3	0.5	Based on 2020	
D.C.	53.7	57.29	57	60	56.9975	D	3	3.3	Mean	37.8333333
HAWAII	30.1	33.04	32	33	32.035	D	3	1.9	Median	34
MASSACHUS	39.5	42.79	42	44	42.0725	D	3	2.5	Mode	#N/A
MINNESOTA	32.7	34.45	35	36	34.5375	D	3	2.3	Variance	91.1388889
RHODE	31.2	34.43	33	34	33.1575	D	3	1.8	Standard	10.4578519
									Minimum	28
Total	214.7	230.65	227	237	227.3375			12.3	Maximum	57
Average of	35.7833333	38.4416667	37.8333333	39.5	37.8895833				Bin Width	4.14285714
									Level of	0.1
									Sample size	6
									Confidence	7.02253835
									Upper	44.8558717
									Lower	30.810795

Row Labels	% OF POPULATION Education 2012	% OF POPULATION Education 2016	% OF POPULATION Education 2020	% OF POPULATION Education 2022	Average	2020 State	State Tier	Change in education rate 2012 - 2020		
ALABAMA	23.4	24.72	25	26	24.78	R	3	1.6	Based on 2020	
ALASKA	28.9	29.3	29	30	29.3	R	3	0.1	Mean	28.0666667
IDAHO	25.8	27.29	27	28	27.0225	R	3	1.2	Median	28
INDIANA	23.3	25.72	26	27	25.505	R	3	2.7	Mode	27
KANSAS	30.2	33.02	32	33	32.055	R	3	1.8	Variance	9.26222222
MISSISSIPPI	20.6	21.9	21	22	21.375	R	3	0.4	Standard	3.15020785
MONTANA	28.5	31.32	31	32	30.705	R	3	2.5	Minimum	21
NEBRASKA	29.7	32.34	31	32	31.26	R	3	1.3	Maximum	33
NORTH	27.3	30.47	30	31	29.6925	R	3	2.7	Bin Width	1.71428571
NORTH	28.8	29.16	29	30	29.24	R	3	0.2	Level of	0.1
OKLAHOMA	23.7	25.54	25	26	25.06	R	3	1.3	Sample size	15
SOUTH	25.3	27.5	27	28	26.95	R	3	1.7	Confidence	1.33789132
SOUTH	26.7	29.63	28	29	28.3325	R	3	1.3	Upper	29.404558
UTAH	30.7	32.37	33	34	32.5175	R	3	2.3	Lower	26.7287753
WYOMING	25.4	26.53	27	27	26.4825	R	3	1.6		
Total	398.3	426.81	421	435	420.2775			22.7		
Average of	26.5533333	28.454	28.0666667	29	28.0185					

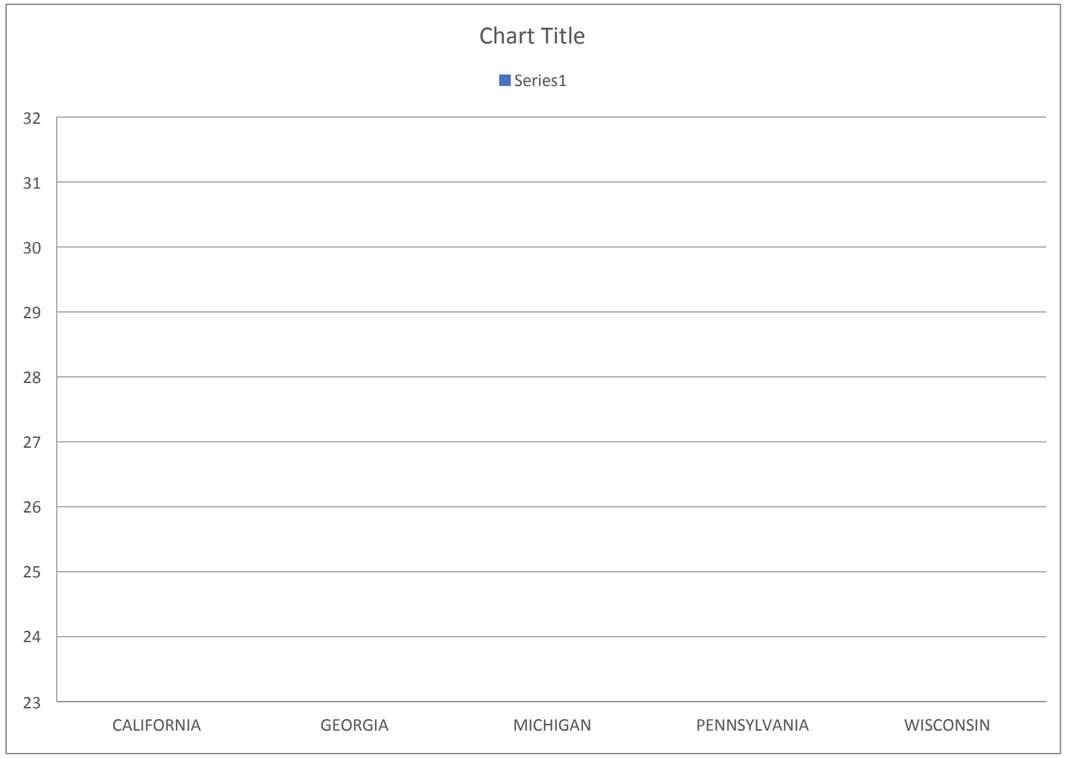




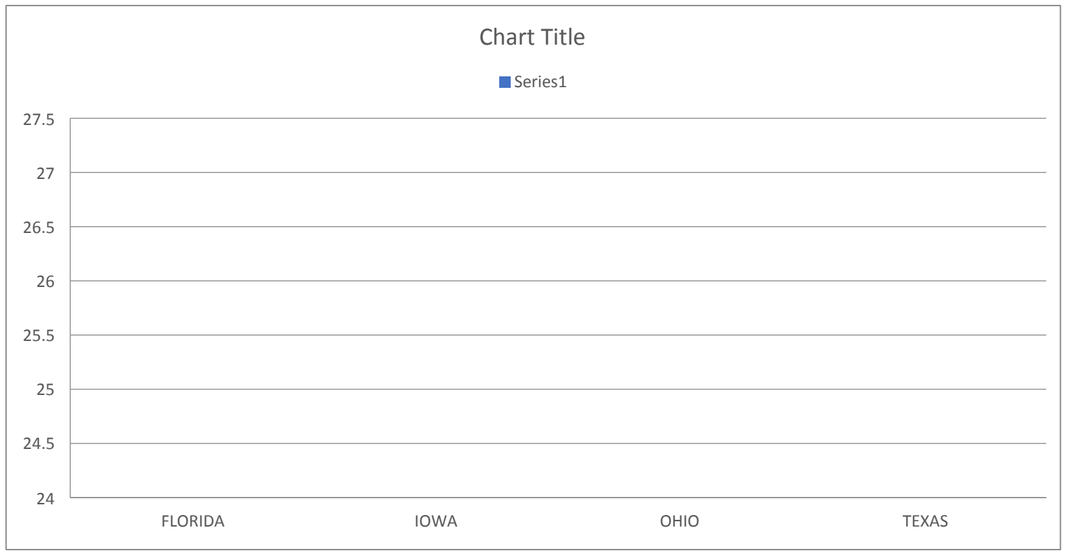


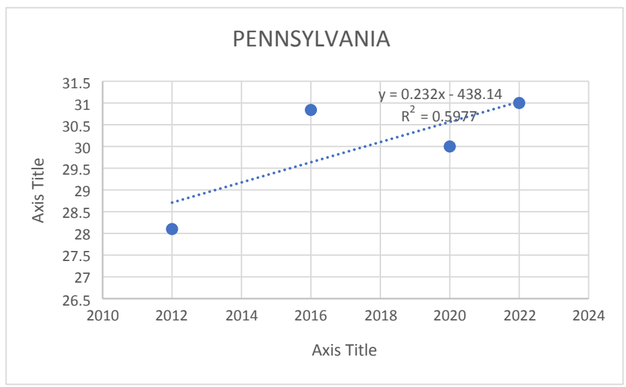


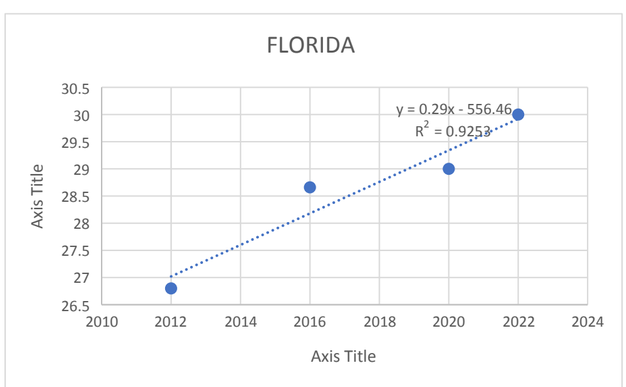
	% OF POPULATION Education	% OF POPULATION Education	% OF POPULATION Education	% OF POPULATION Education	Average of 4 years	2020		Change in education rate 2012 -2020	Based on 2020	
						State election outcome	State Tier			
Row Labels	2012	2016	2020	2022					Mean	30
CALIFORNIA	31	32.97	33	34	32.7425	D	1	2	Median	30
GEORGIA	28.3	30.57	30	31	29.9675	D	1	1.7	Mode	30
MICHIGAN	26.3	28.19	28	29	27.8725	D	1	1.7	Variance	2.8
PENNSYLVA	28.1	30.84	30	31	29.985	D	1	1.9	Standard	1.870828693
WISCONSIN	27.5	29.83	29	30	29.0825	D	1	1.5	Minimum	28
									Maximum	33
Total	141.2	152.4	150	155	149.65			8.8	Bin Width	0.714285714
Average of the listed	28.24	30.48	30	31	29.93				Level of Significance	0.1
									Sample size	5
									Confidence	1.376183279
									Upper	31.37618328
									Lower	28.62381672



	% OF POPULATION Education	% OF POPULATION Education	% OF POPULATION Education	% OF POPULATION Education	Average of 4 years	2020		Change in education rate 2012 -2020	Based on 2020	
						State election outcome	State Tier			
Row Labels	2012	2016	2020	2022					Mean	28.25
FLORIDA	26.8	28.66	29	30	28.615	R	1	2.2	Median	28.5
IOWA	26.8	28.95	28	29	28.1875	R	1	1.2	Mode	29
OHIO	25.2	27.76	27	28	26.99	R	1	1.8	Variance	0.6875
TEXAS	26.9	28.92	29	30	28.705	R	1	2.1	Standard	0.957427108
									Minimum	27
Total	105.7	114.29	113	117	112.4975			7.3	Maximum	113
Average of	26.425	28.5725	28.25	29.25	28.124375				Bin Width	12.28571429
									Level of	0.1
									Sample size	6
									Confidence	0.642920615
									Upper	28.89292061
									Lower	27.60707939







						Website link	https://nces.ed.gov/pubs2015/2015015	Page 46 and 47	https://nces.ed.gov/programs/digest															
							% OF POPULATION Education 2012	% OF POPULATION Education 2012	% OF POPULATION Education 2016	% OF POPULATION Education 2016	% OF POPULATION Education 2020	% OF POPULATION Education 2020	% OF POPULATION Education 2022	% OF POPULATION Education 2022	**2016 electoral vote contribution**	**2016 electoral vote contribut**	**Can it change the outcome of 2016 election just**	Positive represents leanign towards Democrats, and negative represents	To find out the total electoral vote for D	To find out the total electoral vote for R	This is originally used to identify tier 1 states. If a state can change the	Tiers allow me to focus on analyzing a few states instead of 50 states.
STATE	**2012**	**2016**	**2020**	**2016 - 2020 ELECTORAL VOTES**	**2024 ELECTORAL VOTES**	**HS**	**CD**	**HS**	**CD**	**HS**	**CD**	**HS**	**CD**				**Difference between D and R by State**	**2020 electoral vote contribution to Democrats**	**2020 electoral vote contribution to Republicans**	**Can it change the outcome of 2020 election just by itself (if it swings)?**	**State Tier**
ARIZONA	R	R	D	11	11	85.8	27.5	86.75	28.65	86	28	87	30	0	6	No	-1	11	0	No	3
CALIFORNIA	D	D	D	55	54	81.4	31	82.42	32.97	83	33	83	34	0	18	No	3	55	0	Yes	1
COLORADO	D	D	D	9	10	90.4	37.6	91.4	39.97	91	39	92	41	13	0	No	3	9	0	No	2
CONNECTICUT	D	D	D	7	7	89.9	37.2	90.67	38.81	90	39	91	39	12	0	No	3	7	0	No	2
D.C.	D	D	D	3	3	89.2	53.7	89.95	57.29	90	57	91	60	0	3	No	3	3	0	No	3
DELAWARE	D	D	D	3	3	88.3	30.2	89.71	31.71	89	31	90	32	4	0	No	3	3	0	No	2
GEORGIA	R	R	D	16	16	85.2	28.3	86.46	30.57	86	30	87	31	0	10	No	-1	16	0	No	1
HAWAII	D	D	D	4	4	90	30.1	92.26	33.04	92	32	92	33	29	0	No	3	4	0	No	3
ILLINOIS	D	D	D	20	19	87.7	31.5	88.7	33.83	89	33	89	35	0	7	No	3	20	0	No	2
MAINE	D	D	D	4	4	92.1	28	92.5	30.64	92	30	93	32	0	3	No	3	4	0	No	2
MARYLAND	D	D	D	10	10	89.2	37	90.17	39.17	89	39	90	40	0	5	No	3	10	0	No	2
MASSACHUSETTS	D	D	D	11	11	89.7	39.5	90.5	42.79	90	42	91	44	0	10	No	3	11	0	No	3
MICHIGAN	D	R	D	16	15	89.6	26.3	90.36	28.19	90	28	91	29	0	8	No	1	16	0	No	1
MINNESOTA	D	D	D	10	10	92.4	32.7	92.88	34.45	93	35	93	36	4	0	No	3	10	0	No	3
NEVADA	D	D	D	6	6	85.6	22.6	86	23.38	86	24	87	25	9	0	No	3	6	0	No	2
NEW HAMPSHIRE	D	D	D	4	4	92	35.3	93.05	36.67	93	35	93	37	0	9	No	3	4	0	No	2
NEW JERSEY	D	D	D	14	14	88.4	36.3	89.16	38.72	89	38	90	40	0	6	No	3	14	0	No	2
NEW MEXICO	D	D	D	5	5	84.5	26.2	85.64	27.38	85	27	86	27	0	16	No	3	5	0	No	2
NEW YORK	D	D	D	29	28	85.4	33.5	86.3	35.66	86	35	87	37	0	3	No	3	29	0	No	2
OREGON	D	D	D	7	8	90.1	30.2	90.28	32.59	90	32	91	34	0	3	No	3	7	0	No	2
PENNSYLVANIA	D	R	D	20	19	88.9	28.1	89.92	30.84	90	30	91	31	6	0	No	1	20	0	No	1
RHODE ISLAND	D	D	D	4	4	85.8	31.2	88.39	34.43	87	33	89	34	7	0	No	3	4	0	No	3
VERMONT	D	D	D	3	3	92.3	35.1	91.86	36.11	92	37	93	38	0	38	Yes	3	3	0	No	2
VIRGINA	D	D	D	13	13	88.1	35.7	89.11	38.15	89	38	90	39	3	0	No	3	13	0	No	2
WASHINGTON	D	D	D	12	12	90.6	31.8	90.75	34.89	91	35	91	36	0	11	No	3	12	0	No	2
WISCONSIN	D	R	D	10	10	90.9	27.5	92.22	29.83	92	29	92	30	0	6	No	1	10	0	No	1

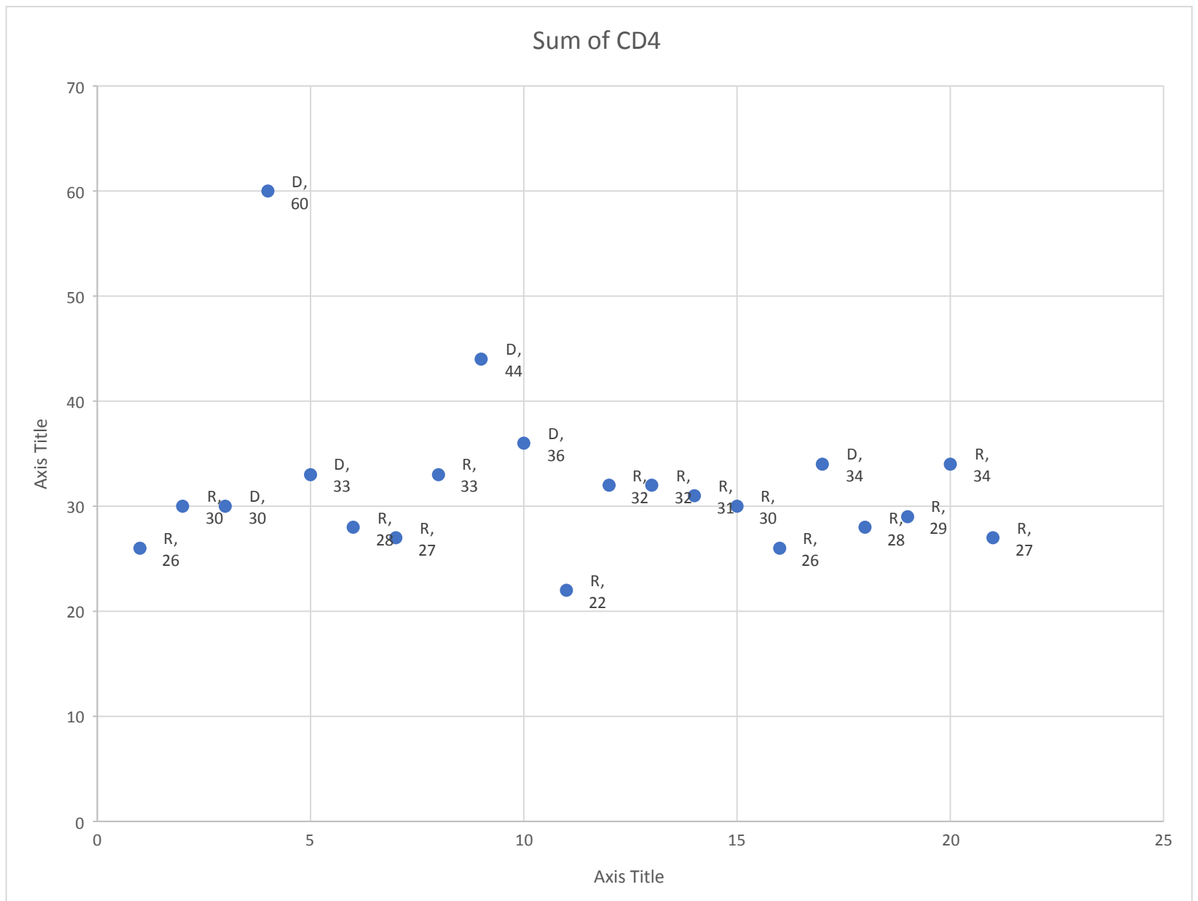
	2012	2016	2020	2022
Row Labels	**Sum of CD**	**Sum of CD2**	**Sum of CD3**	**Sum of CD4**
ALABAMA	23.4	24.72	25	26
ALASKA	28.9	29.3	29	30
ARIZONA	27.5	28.65	28	30
ARKANSAS	21.2	22.1	22	23
CALIFORNIA	31	32.97	33	34
COLORADO	37.6	39.97	39	41
CONNECTICUT	37.2	38.81	39	39
D.C.	53.7	57.29	57	60
DELAWARE	30.2	31.71	31	32
FLORIDA	26.8	28.66	29	30
GEORGIA	28.3	30.57	30	31
HAWAII	30.1	33.04	32	33
IDAHO	25.8	27.29	27	28
ILLINOIS	31.5	33.83	33	35
INDIANA	23.3	25.72	26	27
IOWA	26.8	28.95	28	29
KANSAS	30.2	33.02	32	33
KENTUCKY	21.5	23.39	23	24
LOUISANA	22.2	23.26	23	24
MAINE	28	30.64	30	32
MARYLAND	37	39.17	39	40
MASSACHUSETTS	39.5	42.79	42	44
MICHIGAN	26.3	28.19	28	29
MINNESOTA	32.7	34.45	35	36
MISSISSIPPI	20.6	21.9	21	22
MISSOURI	26	28.55	28	29
MONTANA	28.5	31.32	31	32
NEBRASKA	29.7	32.34	31	32
NEVADA	22.6	23.38	24	25
NEW HAMPSHIRE	35.3	36.67	35	37
NEW JERSEY	36.3	38.72	38	40
NEW MEXICO	26.2	27.38	27	27
NEW YORK	33.5	35.66	35	37
NORTH CAROLINA	27.3	30.47	30	31
NORTH DAKOTA	28.8	29.16	29	30
OHIO	25.2	27.76	27	28
OKLAHOMA	23.7	25.54	25	26
OREGON	30.2	32.59	32	34
PENNSYLVANIA	28.1	30.84	30	31
RHODE ISLAND	31.2	34.43	33	34
SOUTH CAROLINA	25.3	27.5	27	28
SOUTH DAKOTA	26.7	29.63	28	29
TENNESSEE	24.6	26.18	27	27
TEXAS	26.9	28.92	29	30
UTAH	30.7	32.37	33	34
VERMONT	35.1	36.11	37	38
VIRGINA	35.7	38.15	38	39
WASHINGTON	31.8	34.89	35	36
WEST VIRGINA	18.2	21.1	20	21
WISCONSIN	27.5	29.83	29	30
WYOMING	25.4	26.53	27	27
Grand Total	**1481.8**	**1586.41**	**1566**	**1624**

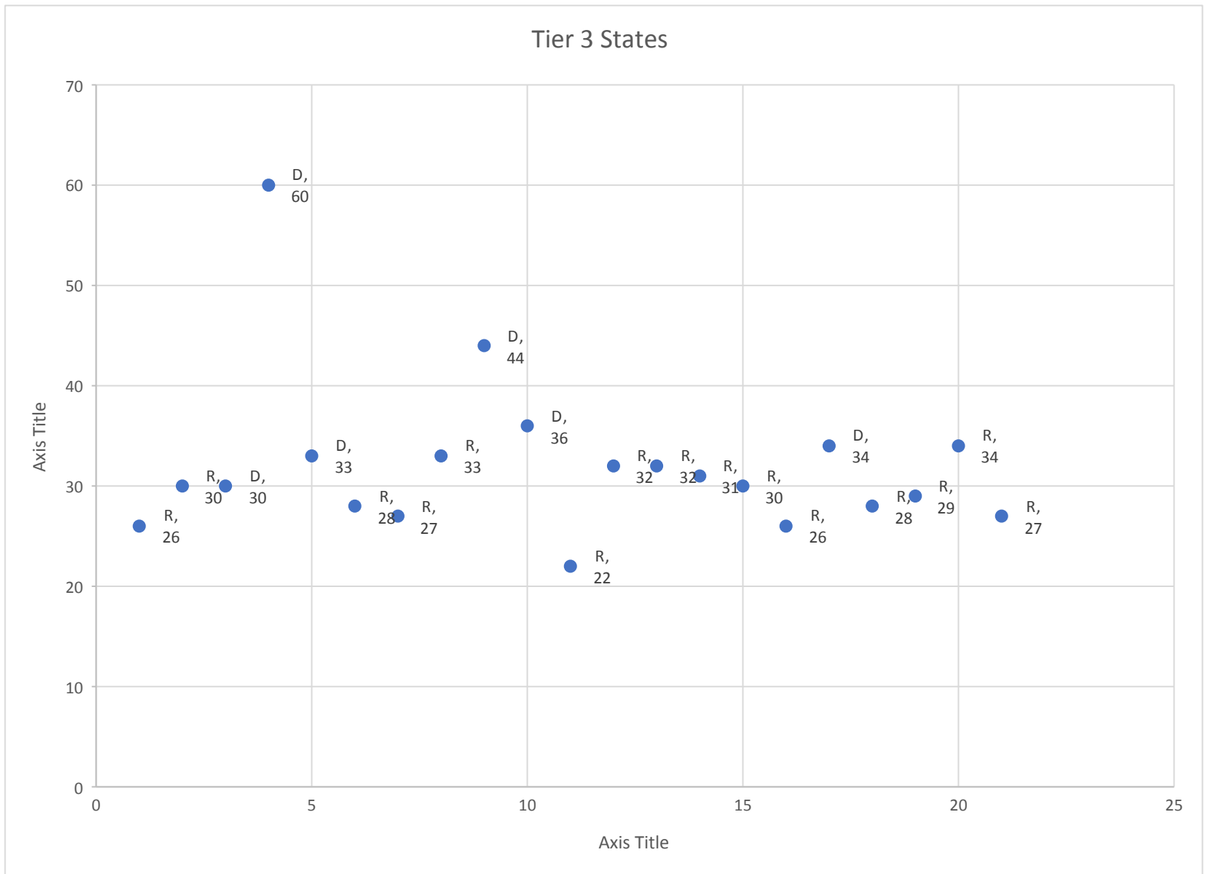
Row Labels	% OF POPULATION Education 2012	% OF POPULATION Education 2016	% OF POPULATION Education 2020	% OF POPULATION Education 2022	State Tier
ALABAMA	23.4	24.72	25	26	3
ALASKA	28.9	29.3	29	30	3
ARIZONA	27.5	28.65	28	30	3
ARKANSAS	21.2	22.1	22	23	2
CALIFORNIA	31	32.97	33	34	1
COLORADO	37.6	39.97	39	41	2
CONNECTICUT	37.2	38.81	39	39	2
D.C.	53.7	57.29	57	60	3
DELAWARE	30.2	31.71	31	32	2
FLORIDA	26.8	28.66	29	30	1
GEORGIA	28.3	30.57	30	31	1
HAWAII	30.1	33.04	32	33	3
IDAHO	25.8	27.29	27	28	3
ILLINOIS	31.5	33.83	33	35	2
INDIANA	23.3	25.72	26	27	3
IOWA	26.8	28.95	28	29	1
KANSAS	30.2	33.02	32	33	3
KENTUCKY	21.5	23.39	23	24	2
LOUISANA	22.2	23.26	23	24	2
MAINE	28	30.64	30	32	2
MARYLAND	37	39.17	39	40	2
MASSACHUSE	39.5	42.79	42	44	3
MICHIGAN	26.3	28.19	28	29	1
MINNESOTA	32.7	34.45	35	36	3
MISSISSIPPI	20.6	21.9	21	22	3
MISSOURI	26	28.55	28	29	2
MONTANA	28.5	31.32	31	32	3
NEBRASKA	29.7	32.34	31	32	3
NEVADA	22.6	23.38	24	25	2
NEW HAMPSH	35.3	36.67	35	37	2
NEW JERSEY	36.3	38.72	38	40	2
NEW MEXICO	26.2	27.38	27	27	2
NEW YORK	33.5	35.66	35	37	2
NORTH CAROL	27.3	30.47	30	31	3
NORTH DAKO	28.8	29.16	29	30	3
OHIO	25.2	27.76	27	28	1
OKLAHOMA	23.7	25.54	25	26	3
OREGON	30.2	32.59	32	34	2
PENNSYLVANI	28.1	30.84	30	31	1
RHODE ISLANI	31.2	34.43	33	34	3
SOUTH CAROL	25.3	27.5	27	28	3
SOUTH DAKOT	26.7	29.63	28	29	3
TENNESSEE	24.6	26.18	27	27	2
TEXAS	26.9	28.92	29	30	1
UTAH	30.7	32.37	33	34	3
VERMONT	35.1	36.11	37	38	2
VIRGINA	35.7	38.15	38	39	2
WASHINGTON	31.8	34.89	35	36	2
WEST VIRGINA	18.2	21.1	20	21	2
WISCONSIN	27.5	29.83	29	30	1
WYOMING	25.4	26.53	27	27	3

Row Labels	Sum of State T	2012 Sum of CD	2016 Sum of CD2	2020 Sum of CD3	2022 Sum of CD4	2020 State election	Sum of CD4
ALABAMA	3	23.4	24.72	25	26	R	26
ALASKA	3	28.9	29.3	29	30	R	30
ARIZONA	3	27.5	28.65	28	30	D	30
D.C.	3	53.7	57.29	57	60	D	60
HAWAII	3	30.1	33.04	32	33	D	33
IDAHO	3	25.8	27.29	27	28	R	28
INDIANA	3	23.3	25.72	26	27	R	27
KANSAS	3	30.2	33.02	32	33	R	33
MASSACHUSE	3	39.5	42.79	42	44	D	44
MINNESOTA	3	32.7	34.45	35	36	D	36
MISSISSIPPI	3	20.6	21.9	21	22	R	22
MONTANA	3	28.5	31.32	31	32	R	32
NEBRASKA	3	29.7	32.34	31	32	R	32
NORTH CAROL	3	27.3	30.47	30	31	R	31
NORTH DAKO	3	28.8	29.16	29	30	R	30
OKLAHOMA	3	23.7	25.54	25	26	R	26
RHODE ISLANI	3	31.2	34.43	33	34	D	34
SOUTH CAROL	3	25.3	27.5	27	28	R	28
SOUTH DAKOT	3	26.7	29.63	28	29	R	29
UTAH	3	30.7	32.37	33	34	R	34
WYOMING	3	25.4	26.53	27	27	R	27

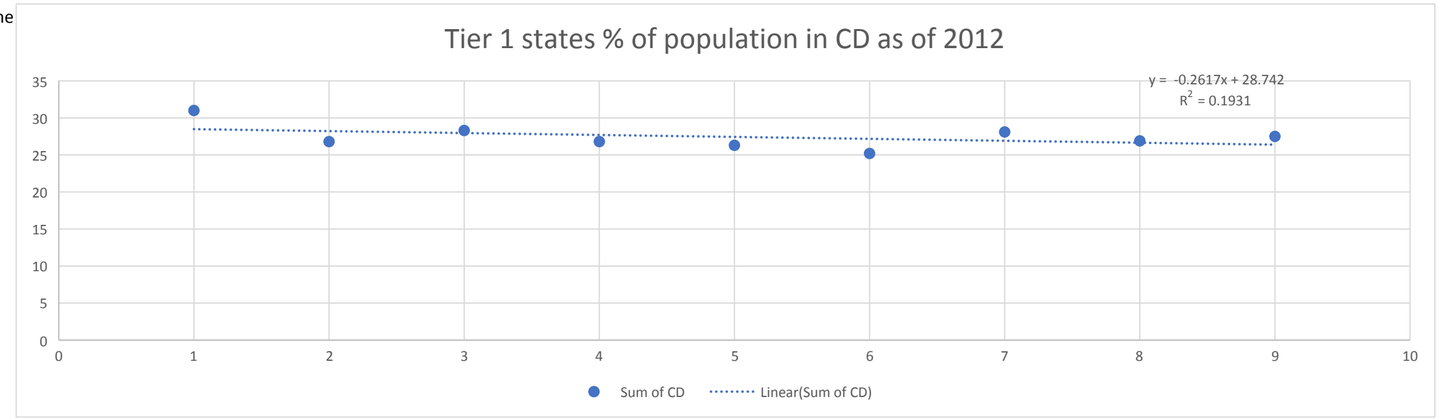
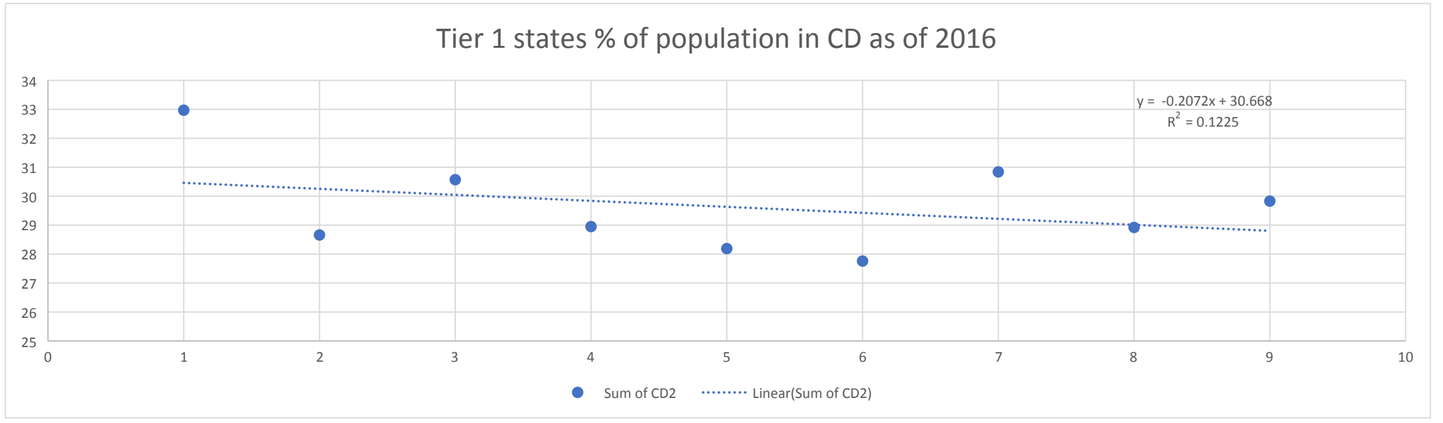
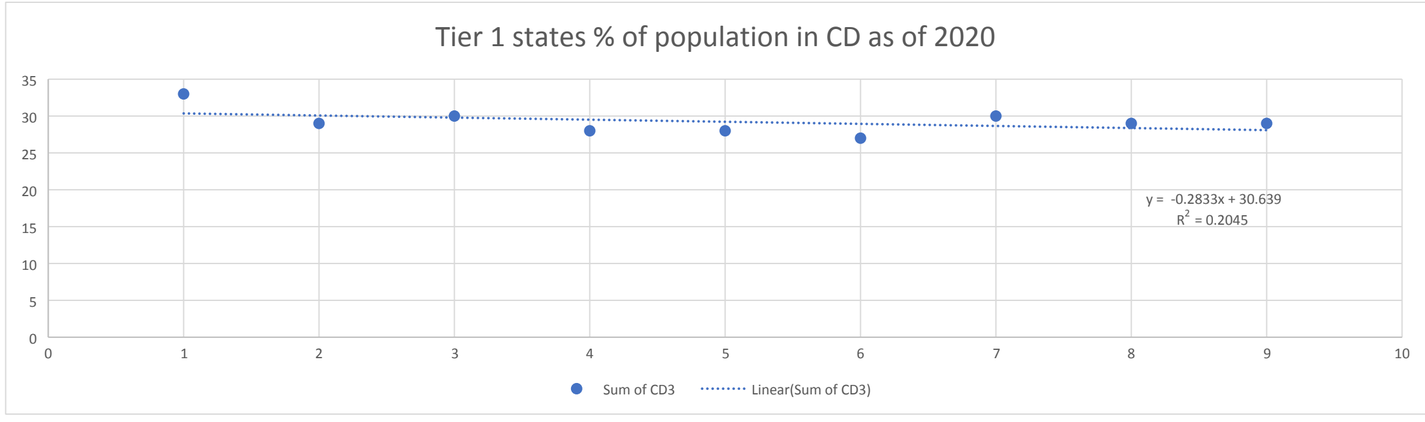
	2012	2016	2020	2022
MINNESOTA	32.7	34.45	35	36

	2012	2016	2020	2022
SOUTH DAKOTA	26.7	29.63	28	29





Row Labels	Sum of State T	2012 Sum of CD	2016 Sum of CD2	2020 Sum of CD3	2022 Sum of CD4	2020 State election outcome
CALIFORNIA	1	31	32.97	33	34	D
FLORIDA	1	26.8	28.66	29	30	R
GEORGIA	1	28.3	30.57	30	31	D
IOWA	1	26.8	28.95	28	29	R
MICHIGAN	1	26.3	28.19	28	29	D
OHIO	1	25.2	27.76	27	28	R
PENNSYLVANI	1	28.1	30.84	30	31	D
TEXAS	1	26.9	28.92	29	30	R
WISCONSIN	1	27.5	29.83	29	30	D

	2012	2016	2020	2022
PENNSYLVANIA	28.1	30.84	30	31

	2012	2016	2020	2022
FLORIDA	26.8	28.66	29	30