

Math 347

Project 1: Elections

It is almost election time and it is time to revisit the electoral vote process. The constitution and its amendments have provided a subjective method for awarding electoral votes to states. Additionally, a state popular vote, no matter how close, awards all electoral votes to the winner of that plurality. Create a mathematical model that is different than the current electoral system. Your model might award fractional amounts of electoral votes or change the methods by which the number of electoral votes are awarded to the states. Carefully describe your model and test its application with the data from the 1992 election. Describe the strengths and weaknesses of your model compared to the current model. Feel free to use your model with other election data as well (real, invented, or a combination of both) to discuss how your model performs in various scenarios.

The 1992 electoral vote election data is as follows:

State	Clinton	Bush	Perot
AL	0	9	0
AK	0	3	0
AZ	0	8	0
AR	6	0	0
CA	54	0	0
CO	8	0	0
CT	8	0	0
DE	3	0	0
DC	3	0	0
FL	0	25	0
GA	13	0	0
HI	4	0	0
ID	0	4	0
IL	22	0	0
IN	0	12	0
IA	7	0	0
KS	0	6	0
KY	8	0	0
LA	9	0	0
ME	4	0	0
MD	10	0	0
MA	12	0	0
MI	18	0	0
MN	10	0	0
MS	0	7	0
MO	11	0	0
MT	3	0	0
NE	0	5	0
NV	4	0	0
NH	4	0	0
NJ	15	0	0
NM	5	0	0
NY	33	0	0
NC	0	14	0
ND	0	3	0
OH	21	0	0
OK	0	8	0
OR	7	0	0

State	Clinton	Bush	Perot
PA	23	0	0
RI	4	0	0
SC	0	8	0
SD	0	3	0
TN	11	0	0
TX	0	32	0
UT	0	5	0
VT	3	0	0
VA	0	13	0
WA	11	0	0
WV	5	0	0
WI	11	0	0
WY	0	3	0
Totals	370	168	0

The 1992 total popular vote election data is as follows:

	Clinton	Bush	Perot
Totals	43682624	38117331	19217213

The state-by-state popular vote data is given in the pdf file on the projects home-page.