

Election Regression Data for G492

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These are tables for a G492 session on regression presentation.

Table 1 : State Data on Election Variables

State	Republican vote (%)	Median Income (\$/household)	Unionization (%)	South	Residual (%)
Alabama	62.5	35,158	9.7	1	6.5
Alaska	61.1	52,499	20.1	0	18.5
Arizona	54.9	40,762	6.3	0	-1.9
Arkansas	54.3	34,246	4.8	1	-5.7
California	44.4	50,220	16.5	0	-1.7
Colorado	51.7	50,538	8.4	0	-0.5
Connecticut	43.9	56,803	15.3	0	-1.1
Delaware	45.8	50,583	12.4	0	-3.4
District of Columbia	9.3	42,118	12.7	0	-42.1
Florida	52.1	39,871	6.0	1	-5.3
Georgia	58.0	42,742	6.4	1	1.8
Hawaii	45.3	50,787	23.7	0	4.9
Idaho	68.4	39,492	5.8	0	10.8
Illinois	44.5	47,977	16.8	0	-2.0
Indiana	59.9	42,067	11.4	0	7.5
Iowa	49.9	40,526	10.5	0	-3.7
Kansas	62.0	41,075	8.4	0	6.9
Kentucky	59.5	34,368	9.6	1	3.3
Louisiana	56.7	34,141	7.6	1	-1.2
Maine	44.6	39,838	11.3	0	-8.7
Maryland	43.0	57,218	10.9	0	-5.3
Massachusetts	36.6	53,610	13.5	0	-10.8
Michigan	47.8	44,407	21.6	0	3.9
Minnesota	47.6	50,100	17.5	0	2.3
Mississippi	59.0	32,466	4.8	1	-1.5
Missouri	53.3	40,725	12.4	0	1.2
Montana	59.1	35,399	11.7	0	4.8
Nebraska	65.9	41,406	8.3	0	10.8
Nevada	50.5	45,395	12.5	0	-0.1
New Hampshire	48.8	53,910	9.9	0	-1.2
New Jersey	46.2	58,588	19.8	0	5.2
New Mexico	49.8	34,805	6.7	0	-8.5

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(Continuation of Table 1)

State	Republican vote (%)	Median income (\$/household)	Unionization (%)	South	Residual (%)
New York	37.7	46,195	25.3	0	-2.8
North Carolina	56.0	38,234	2.7	1	-4.4
North Dakota	62.9	37,554	7.7	0	6.2
Ohio	50.8	41,350	15.2	0	1.0
Oklahoma	65.6	35,129	6.1	1	6.8
Oregon	47.2	40,319	15.2	0	-2.9
Pennsylvania	48.4	41,478	15.0	0	-1.5
Rhode Island	38.7	48,854	16.3	0	-8.0
South Carolina	58.0	38,467	3.0	1	-2.1
South Dakota	59.9	38,415	6.0	0	2.2
Tennessee	56.8	38,247	6.7	1	-0.5
Texas	61.1	40,674	5.0	1	3.2
Utah	71.5	46,873	5.8	0	16.2
Vermont	38.8	43,697	9.8	0	-14.4
Virginia	53.7	50,805	5.3	1	-0.9
Washington	45.6	46,868	19.3	0	0.7
West Virginia	56.1	31,008	14.2	0	2.4
Wisconsin	49.3	44,084	16.0	0	1.0
Wyoming	68.7	43,332	8.0	0	14.0
United States	50.6	43,564	12.5	0.25	0.0

Variable Definitions and Sources

South includes the states of the Confederacy plus Kentucky and Oklahoma.

Republican: the percentage of the vote cast for George Bush in the 2004 presidential election. Source: The U.S. Census Bureau, *The 2008 Statistical Abstract*, Table 388: Popular Vote Cast for President by Political Party— States: 2000 and 2004, <http://www.census.gov/compendia/statab/cats/elections.html>.

Median income and Unionization data are from: The U.S. Census Bureau, "The State and Metropolitan Area Data Book: 2006 State Data Tables," <http://www.census.gov/compendia/smadb/SMADBstate.html#fam>.

Median income: Median household income in 2003 dollars, 2003. Table A-34. States – Median Income of Households in Constant (2003) Dollars and Distribution by Income Level.

Unionization: Percent of workers who are union members, 2004. Table A-33. States – Union Membership.

Residual: The difference between the predicted *Republican* from Table 4, regression 3 and the actual value.

Table 2: Summary Statistics

	Republican Vote (%)	Median Income (\$/household)	Unionization (%)	South
Mean	52.2	43,244	11.3	.25
Median	52.1	41,478	10.5	0
Standard Deviation	10.4	6,819	5.5	.4
Minimum	9.3	31,008	2.7	0
Maximum	71.5	58,588	25.3	1

Sources and variable definitions: See Table 1.

Table 3: A Correlation Matrix

	Republican Vote	Median Income	Unionization	South
Republican Vote	1.00			
Median Income	-.40	1.00		
Unionization	-.51	.50	1.00	
South	.74	.32	-.57	1.00

Sources and Variable Definitions: See Table 1.

Table 4: Regressions To Explain the Republican Vote across States

Variable	Regression 1	Regression 2	Regression 3
Intercept	78.93* (9.02)	78.93* (9.02)	74.02* (7.68)
Income (in \$)	-0.0006* (3.09)	–	–
Income (in \$1000's)	–	-0.62* (3.09)	-0.30 (1.35)
Unionization	–	–	-.77* (2.54)
South	–	–	0.07 (0.02)
R ²	.16	.16	.29
N	51	51	51

Note: t-statistics are in parentheses. Asterisks show significance at the 1% level.
Sources and variable definitions: See Table 1.