# STATISTICAL APPENDICES SHOWING ANALYSIS OF RELATIONSHIP BETWEEN MEASURES OF PERSONAL RESPONSIBILITY AND MEASURES OF RED-STATE/BLUE-STATE POLITICS -- Jeffrey Frankel, Sept. 27, 2012

\*\*\* Thanks to Sarah Cannon and Jesse Schreger for econometric assistance. \*\*\*

## I. The relationship between states' ratio of Democratic/Republican votes and measures of personal responsibility

Figure 1a: Federal Taxes Paid minus Spending Received, among Blue vs. Red States (Average of votes in 2000, 2004 and 2008 presidential elections)

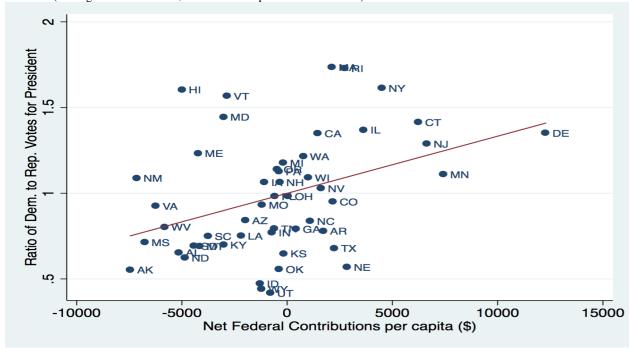
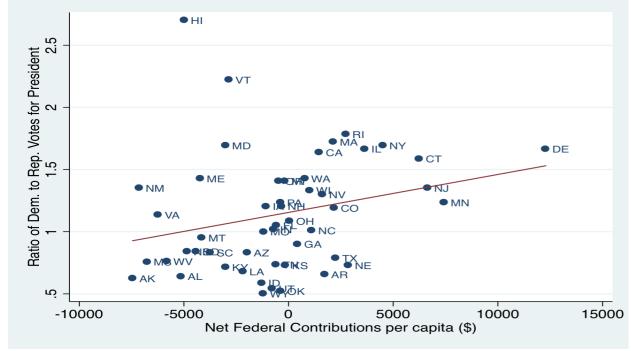
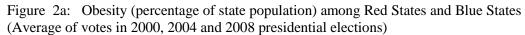


Figure 1b: Federal Taxes Paid minus Spending Received, among Blue vs. Red States (2008 presidential vote)





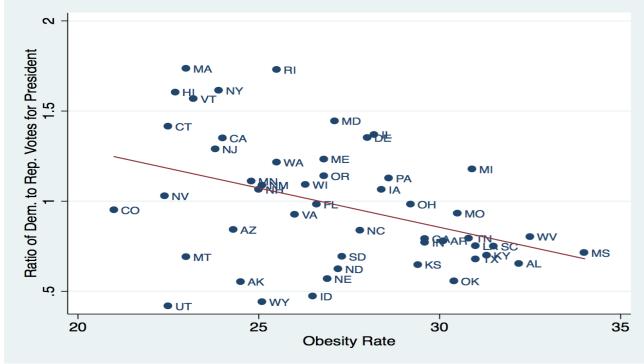
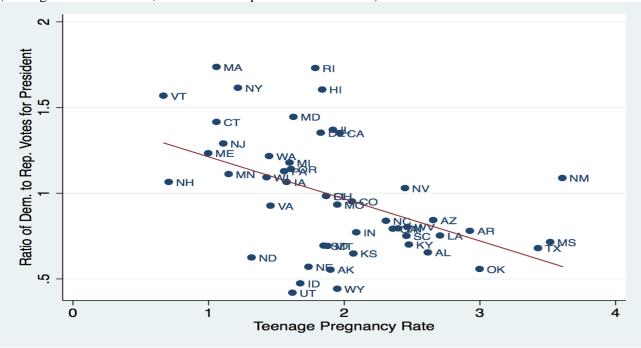
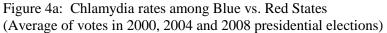


Figure 3a: Teen pregnancy rates (births among girls 15-17 years old) among Blue vs. Red States (Average of votes in 2000, 2004 and 2008 presidential elections)





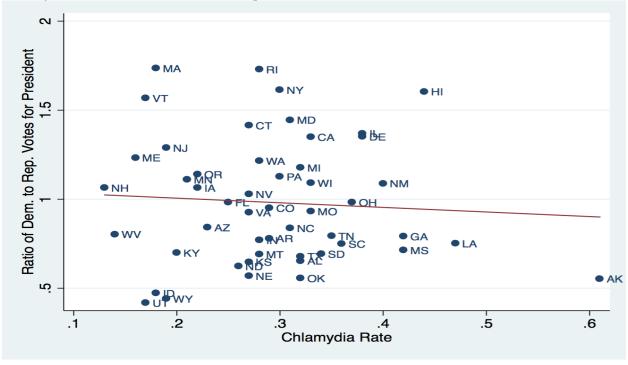


Figure 5a: Smoking (adult rates) among Blue vs. Red States (Average of votes in 2000, 2004 and 2008 presidential elections)

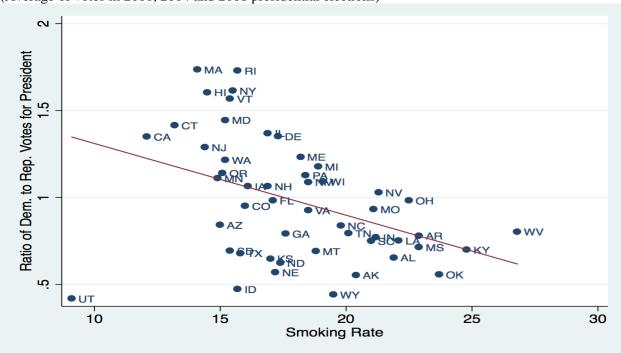


Figure 6a: Drunk driving fatalities among Blue vs. Red States (Average of votes in 2000, 2004 and 2008 presidential elections)

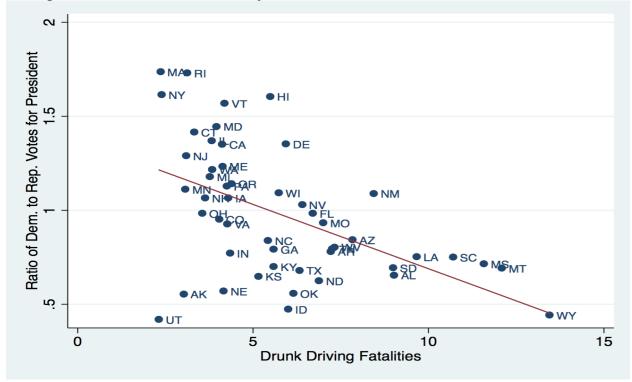
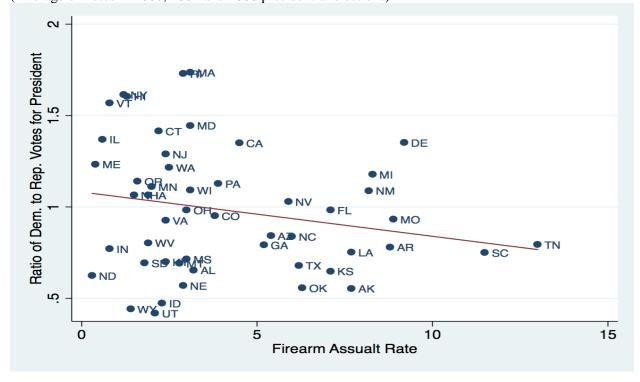


Figure 7a: Firearms assault rates among Blue vs. Red States (Average of votes in 2000, 2004 and 2008 presidential elections)



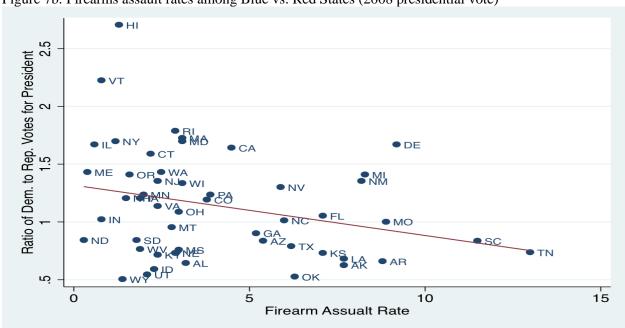


Figure 7b: Firearms assault rates among Blue vs. Red States (2008 presidential vote)

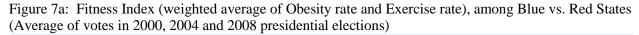
Table 1a: Regressions of Democratic/Republican vote ratio (three-election average: 2000, 2004 & 2008) against measures of personal responsibility

	(1)	(2)
VARIABLES	Ratio D/R	RatioD/R_avg
Smoking (Adult Rate)		-0.0210
		(0.0144)
Drunk Driving Deaths		-0.0541***
C		(0.0188)
Firearms Assault Rate		-0.00400
		(0.0150)
Obesity Rate	-0.0532***	
	(0.0189)	
Exercise Rate	-0.0118	
	(0.0147)	
Constant	3.333**	1.684***
	(1.526)	(0.228)
Observations	50	50
R-squared	0.168	0.301

<sup>\*\*\*</sup> p<0.01, \*\* p<0.05, \* p<0.10. (Robust standard effors in parentheses.)

Table 1b: Regressions of Democratic/Republican vote ratio (2008 presidential election) against measures of personal responsibility

	(1)	(2)
VARIABLES	RatioDR2008	RatioDR2008
Smoking (Adult Rate)		-0.0382*
		(0.0192)
Drunk Driving Deaths		-0.0516**
		(0.0251)
Firearms Assault Rate		-0.0179
		(0.0200)
ObesityRate	-0.0665***	
	(0.0229)	
Exercise Rate	0.00336	
	(0.0161)	
Constant	2.682	2.194***
	(1.657)	(0.304)
Observations	50	50
R-squared	0.229	0.298



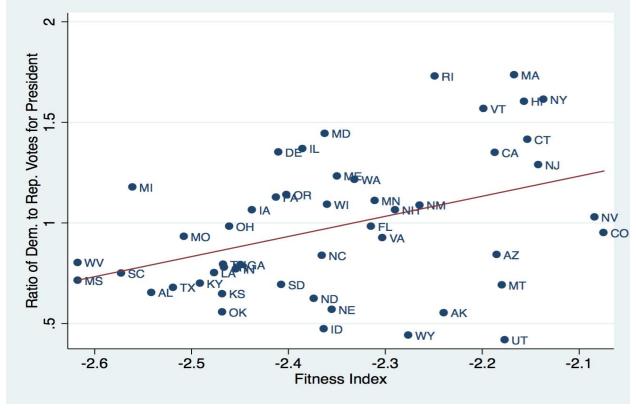


Figure 7b: Fitness Index (weighted average of Obesity rate and Exercise rate), among Blue vs. Red States (2008 presidential vote)

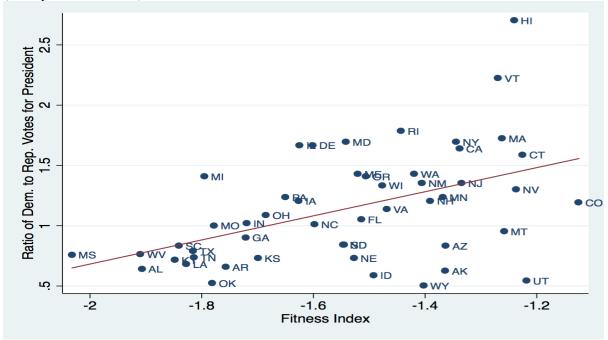


Figure 8a: Hazardous behavior Index (weighted average of smoking, drunk driving fatalities and firearms assaults), among Blue vs. Red States (Average of votes in 2000, 2004 and 2008 presidential elections)

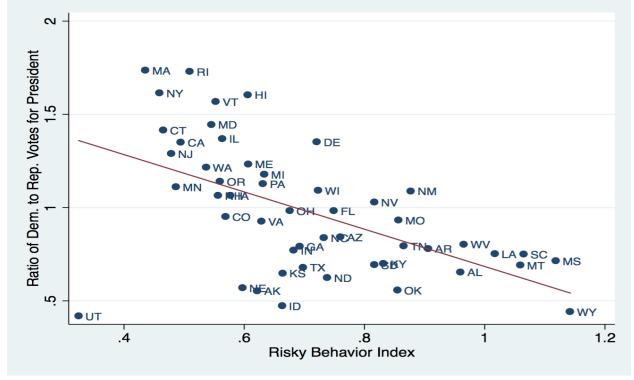


Figure 8b: Hazardous behavior Index (weighted average of smoking, drunk driving fatalities and firearms assaults), among Blue vs. Red States (2008 presidential vote)

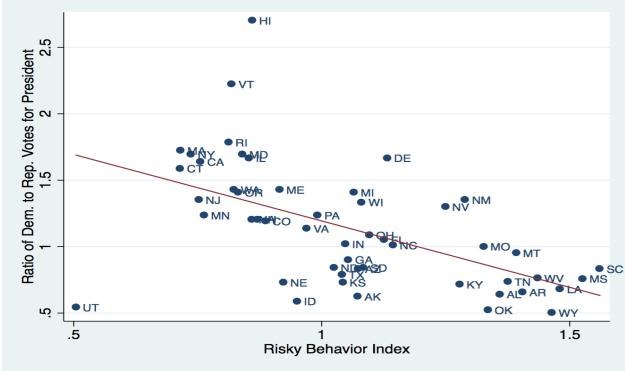


Table 2b: Univariate regressions	of Democratic/Rep	publican vote (20	08) against meas	sures of personal	responsibility
	(1)	(2)	(3)	(4)	(5)
VARIABLES	RatioDR2008	RatioDR2008	RatioDR2008	RatioDR2008	RatioDR2008
Personal Responsibility Index	0.0876*** (0.0290)				
Obesity Rate		-0.0693***			
		(0.0194)			
Exercise			0.0417***		
			(0.0153)		
Drunk Driving Fatalities				-0.0811***	
~				(0.0166)	0.044444
Smoking rate					-0.0614***
Constant	1 715***	2.016***	2.002*	1 602***	(0.0218)
Constant	1.715***	3.016***	-2.082*	1.603***	2.241***
	(0.220)	(0.563)	(1.148)	(0.131)	(0.432)
Observations	50	50	50	50	50
R-squared	0.139	0.228	0.117	0.210	0.209

Robust standard errors in parentheses \*\*\* p<0.01, \*\* p<0.05, \* p<0.10

Table 2b, continued: Regres	sions of Democrat	ic/Republican vot	e against measure	s of personal respo	onsibility
	(1)	(2)	(3)	(4)	(5)
VARIABLES	RatioDR2008	RatioDR2008	RatioDR2008	RatioDR2008	RatioDR2008
Teenage Pregnancy rate	-0.328***				
(15-17 yr olds.)	(0.0828)				
a		0.0004			
Chlamydia Rate		-0.0334			
		(0.916)			
Firearms Assault Rate			-0.0435**		
			(0.0194)		
Overall Fitness Index				0.0704***	
				(0.0198)	
Overall Hazardous					-0.185***
Behavior Index					(0.0364)
Constant	1.776***	1.149***	1.318***	1.822***	1.777***
Constant		· -			
	(0.175)	(0.262)	(0.120)	(0.234)	(0.154)
Observations	50	50	50	50	50
R-squared	0.228	0.000	0.082	0.226	0.270

Robust standard errors in parentheses \*\*\* p<0.01, \*\* p<0.05, \* p<0.10

Figure 9a: Overall Personal Responsibility Index among red states and blue states (Average of votes in 2000, 2004 & 2008 elections)

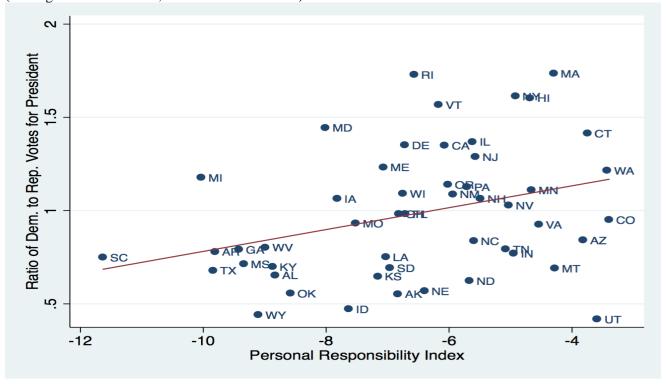


Table 3: Data for the 50 states

State	Repub/Dem	Obesity	Exercise	Drunk	Smoking	Teen	Chlamydia	Firearms	Personal
	Vote 2008			Driving Fatalities	(adult rate)	Pregnancy	rate	Assault rate	Responsibility Index
Wyoming	1.99	25.1	79.8	13.46	19.5	1.95	0.19	1.4	-9.1
Oklahoma	1.91	30.4	72.2	6.16	23.7	3	0.32	6.3	-8.58
Utah	1.84	22.5	83.1	2.32	9.1	1.62	0.17	2.1	-3.59
Idaho	1.7	26.5	80.9	6.01	15.7	1.68	0.18	2.3	-7.63
Alaska	1.6	24.5	79.4	3.03	20.4	1.9	0.61	7.7	-6.83
TOP 5 AVE.	1.808	25.8	79.08	6.196	17.68	2.03	0.294	3.96	-7.146
Alabama	1.56	32.2	70.3	9.03	21.9	2.62	0.32	3.2	-8.83
Arkansas	1.52	30.1	73.4	7.23	22.9	2.93	0.29	8.8	-9.81
Louisiana	1.47	31	70.2	9.67	22.1	2.71	0.47	7.7	-7.03
Kentucky	1.4	31.3	70.1	5.6	24.8	2.48	0.2	2.4	-8.87
Kansas	1.37	29.4	76.7	5.17	17	2.07	0.27	7.1	-7.16
Nebraska	1.37	26.9	78.4	4.17	17.2	1.74	0.27	2.9	-6.4
Tennessee	1.36	30.8	70.3	7.26	20.1	2.4	0.35	13	-5.08
Mississippi	1.32	34	68.6	11.59	22.9	3.52	0.42	3	-9.34
W.Virginia	1.31	32.5	75.4	7.33	26.8	2.47	0.14	1.9	-8.99
Texas	1.27	31	73.8	6.33	15.8	3.43	0.32	6.2	-9.84
S.Carolina	1.2	31.5	76.1	10.71	21	2.46	0.36	11.5	-11.63
Arizona	1.2	24.3	75.7	7.84	15	2.66	0.23	5.4	-3.82
S.Dakota	1.19	27.3	81	9	15.4	1.85	0.34	1.8	-6.96
N.Dakota	1.19	27.2	78.6	6.89	17.4	1.32	0.26	0.3	-5.67
Georgia	1.11	29.6	74.2	5.6	17.6	2.36	0.42	5.2	-9.42
Montana	1.05	23	81.1	12.1	18.8	1.88	0.28	2.8	-4.28
Missouri	1	30.5	75.1	7.01	21.1	1.95	0.33	8.9	-7.52
N.Carolina	0.99	27.8	75.2	5.44	19.8	2.31	0.31	6	-5.6
Indiana	0.98	29.6	74.6	4.35	21.2	2.09	0.28	0.8	-4.95
Florida	0.95	26.6	76.3	6.71	17.1	1.87	0.25	7.1	-6.71
Ohio	0.92	29.2	77	3.56	22.5	1.87	0.37	3	-6.82
Virginia	0.88	26	78	4.28	18.5	1.46	0.27	2.4	-4.54
Colorado	0.84	21	81.2	4.04	16	2.06	0.29	3.8	-3.4
Iowa	0.83	28.4	78.6	4.3	16.1	1.58	0.22	1.9	-7.82
N.Hampshire	0.83	25	81.4	3.64	16.9	0.71	0.13	1.5	-5.49
Pennsylvania	0.81	28.6	75.6	4.26	18.4	1.56	0.3	3.9	-5.71
Minnesota	0.81	24.8	84.1	3.08	14.9	1.15	0.21	2	-4.66
Nevada	0.77	22.4	75.7	6.41	21.3	2.45	0.27	5.9	-5.03
Wisconsin	0.75	26.3	81.5	5.74	19.1	1.43	0.33	3.1	-6.75
New Mexico	0.74	25.1	78.8	8.45	18.5	3.61	0.4	8.2	-5.94
New Jersey	<b>0.74</b>	23.8	74.3	3.1	14.4	1.11	0.19	2.4	<b>-5.57</b>
Michigan	0.71	30.9	77.8	3.78	18.9	1.6	0.32	8.3	-10.03
Oregon	0.71 0.7	26.8	82.8 78.4	4.39	15.1	1.61	0.22 0.16	1.6	-6.02 7.07
Maine	0.7	26.8 25.5	82.7	4.14 3.85	18.2 15.2	1 1.45	0.16	0.4 2.5	-7.07 -3.43
Washington	<b>0.7 0.63</b>	23.5 <b>22.5</b>	81.1	3.33	13.2 13.2	1.45 <b>1.06</b>	0.26 <b>0.27</b>	2.5 <b>2.2</b>	-3.43 <b>-3.75</b>
Connecticut	0.61	24	77.2	4.13	12.1	1.97	0.27	4.5	-6.07
California Illinois	<b>0.6</b> 1	28.2	77.2 <b>75.1</b>	3.83	16.9	1.97 1.92	<b>0.33</b>	<b>0.6</b>	-5.62
Delaware	0.6	28	78.1	5.95	17.3	1.83	0.38	9.2	-6.72
	<u>0.59</u>	<u>27.1</u>	78.1 78.1	3.93 3.97	17.3 15.2	1.63 1.63	0.30 0.31	3.1	-8.01
<u>Maryland</u> New York	0.59	23.9	73.4	2.4	15.5	1.22	0.31	<u>3.1</u> 1.2	-4.92
Massachusetts	0.58	23.9	80	2.4	14.1	1.06	0.3	3.1	-4.92 -4.3
Rhode Island	<b>0.56</b>	<b>25.5</b>	<b>75.7</b>	3.13	15.7	1.79	<b>0.18</b>	2.9	-6.57
Vermont	0.45	23.2	81.8	4.2	15.4	0.67	0.17	0.8	-6.17
Hawaii	0.43	22.7	80.5	5.5	14.5	1.84	0.17	1.3	-4.68
LAST 5 AVE.	0.51	23.66	78.28	3.52	15.04	1.316	0.274	1.86	-5.328
O / . v L .	0.01	20.00	, 5.20	0.02	10.04	1.010	5.217	1.00	5.525

#### **Data sources**

### Teenage pregnancy (15-17), 2009

Birth rate per 1,000 women in specified age group (divided by 10 to get % terms). Source: CDC. Data Brief 58: U.S. birth rates for teenagers aged 15-17 and 18-19 by state, 2007 and 2009. Birth rate per 1,000 women in specified age group. [By place of residence. Data for 2009 are based on a continuous file of records received from the states.]

### **Chlamydia**

Number of Reported Chlamydia Cases per 100,000 Population, 2003 (divided by 1,000 to get % rate) SOURCE: <a href="mailto:statehealthfacts.org">statehealthfacts.org</a> http://www.statemaster.com/graph/hea\_chl\_rat-health-chlamydia-rate

### **Shootings**

Gun crime in the US, 2010. Firearms assaults per 100,000 population (divided by 1,000 to get rate) Source: FBI, http://www.fbi.gov/about-us/cjis/ucr/crime-in-the-u.s/2010/crime-in-the-u.s.-2010 Source article: http://www.guardian.co.uk/news/datablog/2011/jan/10/gun-crime-us-state#data

### <u>drunk driving fatalities</u>

NHSTA data, Department of Transportation

Thanks to Sarah Cannon and Jesse Schreger for econometric assistance.

### Construction of composite indices:

Fitness index = [exercise - 5x(obesity)]/6.

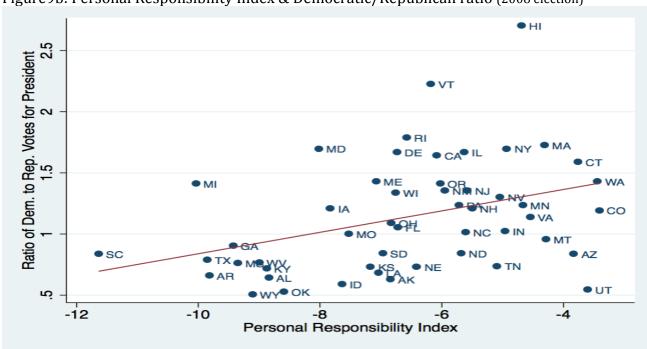
### Index of risky behavior

= (firearms assaults +5.0 drunk driving deaths + 8.0 teenage pregnancy)/ 14.0

### Overall Index of personal responsibility

= average of fitness index and (-) risky behavior index.

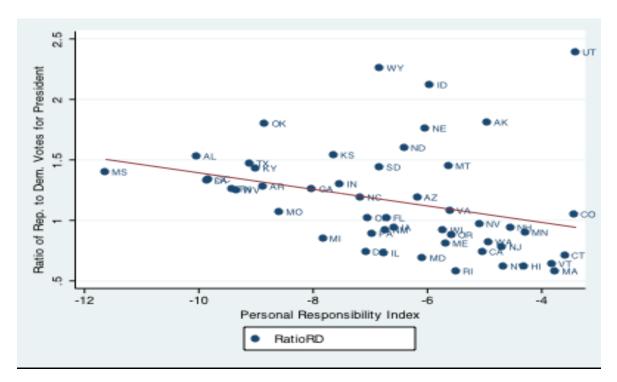
Figure 9b: Personal Responsibility Index & Democratic/Republican ratio (2008 election)



### Appendix II: The relationship between states' Ratio of Republican to Democrat votes and measures of personal responsibility

Figure 9c: Personal Responsibility Index

(averaging voting rates from 2000, 2004 and 2008 elections)



This is relationship is statistically significant at the 97% confidence level (3.0 % significance level).

. reg ratiord	personal, rol	bust				
Linear regress	Linear regression					
rationd	Coef.	Robust Std. Err.	t	P>ItI	[95% Conf.	Interval]
personalre~x _cons	0683796 .7086316	.029949 .236295	-2.28 3.00	0.027 0.004	1285961 .2335286	0081631 1.183735

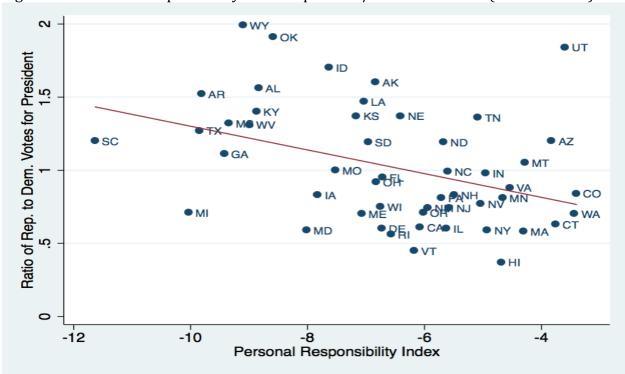
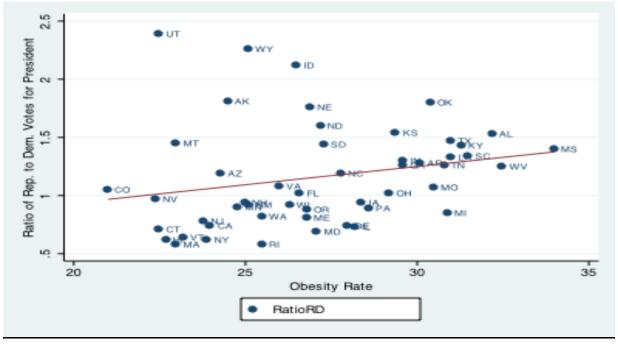


Figure 9d: Personal Responsibility Index Republican/Democratic ratio (2008 election)

### **Obesity**

Figure 2c: Obesity<sup>1</sup> and Republican vs. Democrat Popular Votes (2000, 2004, 2008 Elections)



1 Source: CDC, http://www.cdc.gov/obesity/data/trends.html#State

This is a statistically significant relationship, at the 90 % confidence (10 % significance) level.

. reg ratiord obesity, robust

ratiord	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
obesityrate	.0314087	.018115	1.73	0.089	0050139	.0678314
_cons	.3074627	.5286415	0.58	0.564	7554423	1.370368

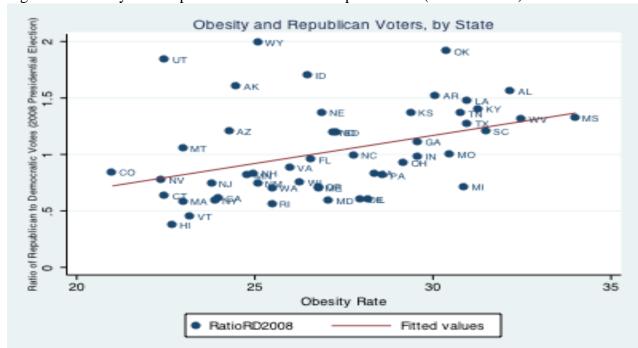


Figure 2d: Obesity<sup>1</sup> and Republican vs. Democrat Popular Votes (2008 Election)

1 Source: CDC, http://www.cdc.gov/obesity/data/trends.html#State

This is a statistically significant relationship, at the 99.9 % confidence (0.1 % significance) level.

### The relationship is significant at the $\,0.1\%$ level. (Includes Washington, DC) $_{\text{reg ratiord obesity, robust}}$

Linear regress	sion	R-squared =	
	Robust		

rationd200	8	Coef.	Robust Std. Err.	t	P>ItI	[95% Conf.	Interval]
obesityra		.0561855 5117527	.0162301 .4623847	3.46 -1.11	0.001 0.274	.0235699 -1.44095	.0888012

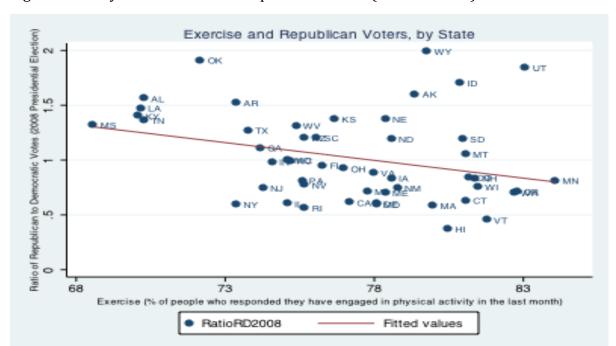


Figure 10d: Physical Exercise and Republican Voters (2008 election)

Note: CDC statistics on exercise pertain to 2004 (except for Hawaii, which pertains to 2005).

This relationship is statistically significant at the 97% confidence (3% significance) level.

Regression of Republican/Democratic voters against exercise is statistically significant. . reg ratio exercise, robust

1.320128

5.73627

0.002

Number of obs =Linear regression 5.05 F( 1, Prob > F 48) = 0.0293 0.0934 R-sauared Root MSE .38715 Robust ratiord2008 Coef. Std. Err. P>ItI [95% Conf. Interval] -.0324506 .0144426 -2.25 0.029 -.0614894 -.0034119 exercise

3.21

1.098196

3.528199

.

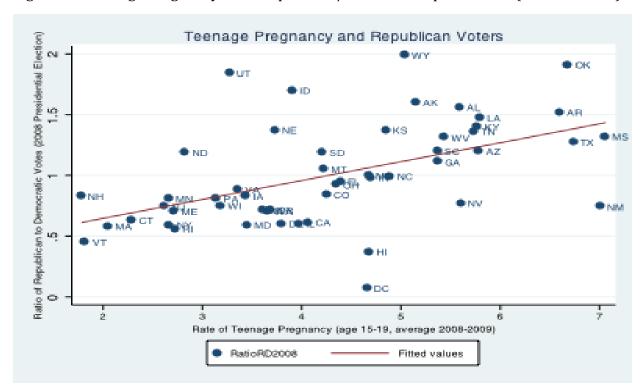


Figure 3d: Teenage Pregnancy<sup>2</sup> and Republican/Democrat Popular Votes (2008 Election)

2 Source: CDC, Birth rates for teenagers aged 15-19 by state, annual average for 2007-2009. <a href="http://www.cdc.gov/obesity/data/trends.html#State">http://www.cdc.gov/obesity/data/trends.html#State</a> (downloaded May 10, 2012)

This relationship is statistically significant at the 99.9 level of confidence (0.1 level of significance).

#### reg ratio rate, robust

ratiord2008	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
rate_15_19	.1555704	.0329327	4.72	0.000	.0893897	.2217512
_cons	.3359513	.1390579	2.42	0.019	.056504	.6153987

Table 2d: Univariate regressions of Republican/Democratic vote (2008) against measures of personal responsibility							
	(1)	(2)	(3)	(4)	(5)		
VARIABLES	RatioRD2008	RatioRD2008	RatioRD2008	RatioRD2008	RatioRD2008		
					_		
Personal Responsibility Index	-0.0811***						
	(0.0286)						
ObesityRate		0.0497***					
		(0.0157)					
Exercise			-0.0325**				
			(0.0144)				
DrunkDriving				0.0737***			
				(0.0203)			
SmokingAdultRate					0.0461**		
					(0.0221)		
Constant	0.490**	-0.322	3.528***	0.602***	0.196		
	(0.194)	(0.448)	(1.098)	(0.134)	(0.420)		
Observations	50	50	50	50	50		
R-squared	0.158	0.155	0.093	0.229	0.156		
*** p<0.01, ** p<0.	05. * p<0.10	Robust stand	dard errors in p	arentheses			

Table 2d: Regressions	Table 2d: Regressions of Republican/Democratic vote against measures of personal responsibility, continued								
	(1)	(2)	(3)	(4)	(5)				
VARIABLES	RatioRD2008	RatioRD2008	RatioRD2008	RatioRD2008	RatioRD2008				
Teenage Pregnancy	0.282***								
	(0.0757)								
ChlamydiaRate		0.147							
•		(0.745)							
FirearmAssaultRate			0.0294*						
			(0.0165)						
FitnessIndex				-0.0511***					
				(0.0166)					
RiskyBehaviorIndex					0.162***				
•					(0.0395)				
Constant	0.476***	0.981***	0.902***	0.527***	0.466***				
	(0.145)	(0.229)	(0.0957)	(0.189)	(0.145)				
Observations	50	50	50	50	50				
R-squared	0.223	0.001	0.050	0.158	0.272				
*** p<	0.01, ** p<0.05, * j	p<0.10 Rob	ust standard errors	in parentheses					

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## Appendix III: The relationship between states' votes on Obamacare and measures of personal responsibility

Congressional	vote:	State's <b>ranking</b> in measures of risky behavior vs. personal responsibility							
Six states w	ith	Obe	Lack of	Teen-	Chla-	Drunk	Smo-	Shoot-	Average
highest share v	oting	sity	exer-	age	mydia	Driving	king	ings	of
for Obamaca	_		cise	preg-				(firearm	rank-
(Affordable Car	e Act)			nancy				assaults)	ings
Vermont	VT	43	46	50	47	32	39	47	43.4
Connecticut	CT	48	42	46	34	43	48	35	42.3
Rhode I.	RI	33	18	30	28	44	36	28	31.0
Hawaii	HI	46	38	28	3	24	45	44	32.6
N.Dakota	ND	23	33	42	35	14	25	50	31.7
Mass.	MA	45	37	46	45	49	47	24	41.9
Average		39.7	35.7	40.3	32.0	34.3	40	38	<b>37.15</b>
Six states with lowest votes for Obamacare									
Louisiana	LA	6	3	6	2	5	7	8	5.3
Wyoming	WY	34	36	21	42	1	16	43	27.6
Idaho	ID	29	39	32	44	19	35	34	33.1
Oklahoma	OK	11	6	4	17	18	3	12	10.1
Utah	UT	47	49	34	46	50	50	36	44.6
Alabama	AL	3	5	8	18	6	8	21	9.9
Average		21.7	23.0	17.5	28.2	16.5	19.8	25.7	<b>21.77</b>

### Obesity

. reg share obesity, robust

Linear regression

sharevoted~a	Coef.	Robust Std. Err.	t	P>ItI	[95% Conf.	Interval]
obesityrate	0453915	.012337	-3.68	0.001	0701967	0205862
_cons	1.745473	.3423931	5.10	0.000	1.057046	2.433901

This relationship is statistically significant at the 99.9 % confidence level (0.1 % significance).

#### Exercise

. reg share exercise, robust

Linear regression

Number of obs = 50 F( 1, 48) = 9.26 Prob > F = 0.0038 R-squared = 0.1590 Root MSE = .28221

sharevoted~a	Coef.	Robust Std. Err.	t	P>ItI	[95% Conf.	Interval]
exercise	.0320396	.0105273	3.04	0.004	.0108731	.0532062
_cons	-1.957076	.7994489	-2.45	0.018	-3.564475	349676

This relationship is statistically significant at the 99.5 % confidence level (0.5 % significance).

### **Drunk Driving**

. reg share drunk, robust

Linear regression

sharevoted~a	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
drunkdriving	0465173	.0152316	-3.05	0.004	0771426	0158921
_cons	.7819301	.0967578	8.08	0.000	.5873855	.9764747

This relationship is statistically significant at the 99.5 % confidence level (0.5 % significance).

### Smoking

. reg share smoking, robust

Linear regression

Number of obs = 50 F( 1, 48) = 2.83 Prob > F = 0.0989 R-squared = 0.1064 Root MSE = .2909

sharevoted~a	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
smokingadu~e	0287753	.0171009	-1.68	0.099	063159	.0056084
_cons	1.032919	.3174577	3.25	0.002	.3946277	1.671211

This relationship is statistically significant at the 90 % confidence level (10 % significance).

### Teenage Pregnancy (15-17) . reg share teenage, robust

Linear regression

Number of obs =) = 9.41 = 0.0035 = 0.1865 = .27756 F( 1, 48) = Prob > F = R-squared Root MSE

sharevoted~a	Coef.	Robust Std. Err.	t	P>ItI	[95% Conf.	Interval]
teenagepre~y	1952215	.0636246	-3.07	0.004	3231473	0672956
_cons	.8943783	.1226372	7.29	0.000	.6477996	1.140957

This relationship is statistically significant at the 99.5 % confidence level (0.5 % significance).

Chlamydia . reg share chlamydia, robust

Linear regression

Number of obs =F(1, 48) = 0.73 Prob > F = 0.39580.73 R-squared Root MSE = 0.0149 = .30544

sharevoted~a	Coef.	Robust Std. Err.	t	P>ItI	[95% Conf.	Interval]
chlamydiar~e	4027135	.4700305	-0.86	0.396	-1.347773	.5423462
_cons	.6334313	.1509238	4.20	0.000	.3299786	.936884

This relationship is not statistically significant at conventional confidence levels..

### Firearm assaults

. reg share firearm, robust

Linear regression

Number of obs =F(1, 48) = Prob > F =5.96 = 0.0184 = 0.0841 = .29451 R-squared Root MSE

sharevoted~a	Coef.	Robust Std. Err.	t	P>ItI	[95% Conf.	Interval]
firearmass~e	-2.902281	1.189295	-2.44	0.018	-5.293519	5110428
_cons	.6353418	.0729397	8.71	0.000	.4886866	.781997

This relationship is statistically significant at the 98 % confidence level (2 % significance).

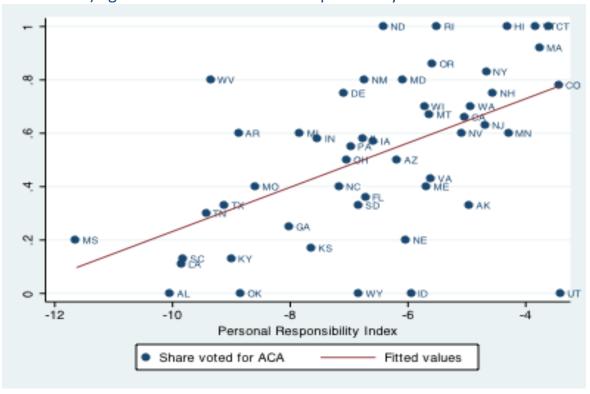
Fitness index = [exercise - 5x(obesity)]/6.

Index of risky behavior

= (firearms assaults +5.0 drunk driving deaths + 8.0 teenage pregnancy)/ 14.0

Overall Index of personal responsibility = average of fitness index and (-) risky behavior index.

Graph of States' congressional votes on ACA (Affordable Care Act, i.e., Obamacare) against Index of Personal Responsibility



. reg share personal, robust Linear regression Number of obs = F( 1, 48) =Prob > F 0.0001 R-squared Root MSE Robust [95% Conf. Interval] sharevoted~a P>ItI Coef. Std. Err. .082908 .0195965 4.23 0.000 .0435066 .1223094 personalre~x 1.061087 1423106 0.000 .7749522 1.347221 \_cons 7.46

This relationship is statistically significant at the 99.9 % confidence level (0.1 % significance).