The following pages were designed to provide a rough guide as to how to examine data. These instructions are by no means exhaustive or complete and the statistics suggested do not take into consideration special situations and unusual data characteristics. After the database is complete and clean, you need to start the process of analysis. Progressing through these steps will improve the efficiency of your analysis and help prevent you from spending hours in front of the computer on "fishing trips." Use the process outlined below when you begin to think about writing the report for your project.

The questions contained in the next few pages were designed to be generic and useful for most projects. Our purpose was to develop a systematic process so that you can assemble in one place, the relevant information needed to write up your methodology and select the appropriate way to analyze the data.

Four phases are outlined:

- 1. The first step is to clarify the metadata associated with the information you are about to examine. This means that you need to know some basic things about the way the data were collected. Use this information to help write the "methodology" section of your report (of course you will need to draw upon additional information to provide details about the methodology when you are actually writing this section). However, this form will provide a good place to start. Some of this information may already be recorded in the codebook.
- 2. The next step is to identify which variables you are interested in examining. This is a critical step because the temptation is to look at the relationship between everything. Statistically this is considered "fishing" for good results.¹ Avoid fishing at all costs. It wastes time and leads to a dramatic increase in the sampling error.
- 3. The third step is to select the appropriate statistics for the variables you want to examine. This procedure is dependent on a number of characteristics of the data.
- 4. The final step is to create tables of your findings. These tables along with appropriate graphs or charts will then be inserted into your report along with your interpretations of the results.

¹ Fishing is also referred to as "data dredging."

STEP 1: DEVELOP METADATA FOR THE PROJECT

Prior to sitting down to examine a dataset, it is important to review the data collection methodology (sometimes we refer to this as metadata). Some details about the data collection should be found in the project files and also at the bottom of the codebook associated with your dataset. When writing up the results you will need to write a couple of paragraphs outlining the procedures that were followed to gather the information. The more specific you are on this step the better the final report will be. After sorting out the metadata move on to Step 2. Answer as completely as you can, each of the following:

A. Describe the sampling frame (population + method of selecting the sample).

B. Describe/ list the selection criteria.

C. When was the data collected (i.e. dates and time of day)?

D. Who collected the data (i.e. number and names of staff)?

E. How was the data collected (i.e. method of administration and collection)?

F. Non-response rate (i.e. if a survey was used, how many people decline to participate):

G. What are the main limitations (i.e. related to the measures and the data collection process) and how much does these factors affect the inferential strength of the results?

STEP 2: MAKING PREDICTIONS

Prior to sitting down to a database to examine the information, it is important to have a clear sense of what you want to look for. Your ideas should be based in a thorough examination of the relevant literature. This intensive literature review was done early in the project, probably when the grant proposal was written or before the data collection instruments were created. While you may not have been involved in this aspect of the project's development, the project director will be able to tell you what patterns are expected. Also, after spending many hours collecting and cleaning the data, you will also have your own ideas developed about which variables may be related. Isolating specific variables to examine is very important, especially when dealing with large datasets. If you do not narrow down your focus, you will spend hours, if not days, fishing for significant findings. Follow the steps below to select key variables to examine. You may

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elect to modify or repeat this process if you have more than three key variables or you are developing a complicated multivariate model. Once you have completed this process move on to Step 3.

A. Select one dependent variable:

B. Of all the independent variables included in this study which two do you think are most likely to be related to your dependent variable? (name the variables)

1._____ 2.____

C. Write a hypothesis for each predicted relationship.

D. Are there any problems with these measures that would impact on the external validity and reliability of these findings?

STEP 3: SELECTING THE APPROPRIATE STATISTIC

Selecting the appropriate statistic to examine your data (both univariate and bivariate analysis) can be very confusing; there are many statistics to choose from. Basically, the selection of the statistic depends on three factors:

- □ the level of measurement for the variables you are looking at,
- whether you expect that the data will have a certain underlying distribution (i.e. linear); and,
- the sampling frame (whether it was a random sample).

The first two aspects are the most important to the selection of appropriate statistics. To select the appropriate statistic for your analysis please fill in the table below identifying the level of measurement for each variable involved.

Concept	Variable Name (from codebook)	Level of Measurement
Independent		
1.		
2.		
Dependent		

UNIVARIATE ANALYSIS

Always begin your analysis by looking at the descriptive statistics for each variable. Generally, this information is reported when you discuss the sample or the way variable were constructed (before the results section). We refer to this process as doing the univariate analysis because you are examining each variable by itself. The selection of statistics used depends on the level of measurement for each variable. Remember there are four different levels of measurement:

DISCRETE VARIABLES

 nominal: response set has choices that have a name only (i.e. male and female are the two categories or choices for the variable gender) ordinal: response sets can be rank ordered (i.e. strongly agree, agree, neutral, disagree, strongly disagree for someone's opinion of a statement).

CONTINUOUS VARIABLES

- interval: numeric value of response set has meaning, and can undergo mathematical operations (i.e. age in years)
- ratio: numeric value of response set has meaning, can undergo mathematical operations, and there is a meaningful zero (i.e. usually a count of some kind like the number of times a person was arrested in the last 6 months).

The table below will help you to determine what statistics to look at for each type variable. Please note that certain graphic representations are appropriate for different kinds of variables.

Level of	Central Tendency	Dispersion	Graphics
Measurement		-	-
Nominal	Valid percents for	Index of Dispersion	Pie chart, bar chart
	categories, with particular	(also called Index of	(bars do not touch).
	attention to the mode	Qualitative Variation)	
	(modal category)		
Ordinal	Valid percents for	Index of Dispersion	Pie chart, bar chart
	categories, with particular	(also called Index of	(bars do not touch).
	attention to the mode.	Qualitative Variation)	
Interval	Mean and median; if you	Standard Deviation	Histogram (like a
	see a dramatic difference		bar chart but the
	then the distribution is	Distribution (i.e.	bars touch), or a line
	skewed – report both (no	normal, j-curve, bi-	chart
	difference then report just	modal)	
	the mean).		
Ratio	Mean and median- same	Standard Deviation	Histogram (like a
	above.		bar chart but the
		Distribution (i.e.	bars touch), or a line
		normal, j-curve, bi-	chart
		modal)	

Table 1. Type of Statistic and Graphic to use based on the Level of Measurement

Univariate analyses is generally done for three sets of variables: sample demographics or control variables, key independent variables, and dependent variables. The results are reported in a table and there is a paragraph or two for each category of variables. This text draws the readers' attention to the most predominant patterns in the table.

BIVARIATE ANALYSIS

Bivariate analysis requires that you examine the relationship between two variables. To describe a relationship you must:

- □ identify the form of the relationship (linear or curvilinear),
- assess the strength of the relationship (also referred to as the degree of association),
- □ determine the direction of the relationship (positive or negative), and
- establish the significance of the relationship (testing the hypothesis).
- A. What kind of distribution do you expect to see? If the relationship between the variables is linear then you should select parametric statistics for this variable(s). If the relationship between the variables is non-linear then you will need to choose non-parametric statistics. To make this determination you may view a scatterplot to see how the variables are interacting.
- B. Assessing the nature and strength of a relationship also depends on the level of measurement for each variable, the difference here is that you must take into account both variables. The chart below offers some guidance as to which statistics to select. The following pages provide much more detailed information about the different options available to you.

Level of	Analytic	Measure of Association	Significance	Direction/Shape
Measurement	Process	(PRE)	Test	
2 discrete variables	Contingency	Phi	Chi-square	Sign/ diagonal
nominal/nominal	Tables			concentration
nominal/ordinal				
Discrete/Continuous	ANOVA	Eta (for linear)	F Test	Sign
		(square for PRE)		
Continuous/	Correlations	Pearson's Correlation	T test	Sign/ scatter plot
Continuous		Coefficient (square for		
		PRE) LINEAR		
Ordinal/ Ordinal	Correlations	Spearman's Rho	T test	Sign
		(square for PRE)		
		LINEAR		

Table 2. Type of Statistic to Use with Two Levels of Measurement

Tables 3 to 6 that follow provide greater detail about many of the most popular statistics used in research reports.

Level of	Measure of	Formula	Use/ Assumptions	Range	Direction
Measurement	Association				
2 nominal variables or nominal w/ ordinal	Phi (f)	$f = \sqrt{\frac{c^2}{N}}$	2x2 table; independent SRS to gather data; observations independent (no times series data); no cell has less than 5 freq; f^2 demonstrates the amount of influence of IV on DV, take % for PRE.	-1 to +1	Always + when used w/ \boldsymbol{c}^2
Nominal w/ ordinal	Contingency Coefficient (C)	$C = \sqrt{\frac{c^2}{c^2 + N}}$	> 2 categories; strength depends on upper limit; cannot be squared to get an estimate of variance	0 to $\sqrt{\frac{(r-1)}{r}}$ r = # of rows	Always + due to square root
Nominal w/ ordinal	Cramer's V (V)	$V = \sqrt{\frac{c^2}{N(L-1)}}$ L=lesser of (r-1) or (c-1)	> 2 categories; cannot be squared to get an estimate of variance	-1 to +1	+ variables move together, - inverse
2 nominal variables	Lambda (?)	$I = \frac{E_1 - E_2}{E_1}$	Specify IV and DV, is an asymmetric measure; If IV and DV have same modal category it can't be used; PRE measure when take %.	0 to 1	Always +

Table 3. Measures of Association for Nonparametric Statistics -- Nominal

Table 4. Measures of Association for Nonparametric Statistics - 2 Ordinal Variables

Measure of	Formula	Use/ Assumptions	Range	Direction
Association				
Gamma (?)	$\sim N_s - N_d$	General use	-1 to +1	+ more pairs are
	$g = \frac{1}{N_s + N_d}$			similar - more dissimilar
Somer's d (d)	$N_{c} - N_{d}$	Tied on DV	-1 to +1	+ more similar
	$d = \frac{s}{N + N + T}$	Takes tied pairs into account, weakens assoc.		pairs
				- more dissimilar
Tau-b	$N_{\perp} - N_{\perp}$	Tied on x but not on y	-1 to +1	+ more similar
	$tau-b=\frac{b}{\sqrt{b}}$	Includes pairs tied on y but not x.	(1 if all <i>f</i> fall on	pairs
	$\sqrt{(Ns+Nd+Ty)(Ns+Nd+Tx)}$	Must have equal # r and c	the diagonal)	- more dissimilar
Spearman's	$6(\sum D^2)$	Variables ranked on a case-by-case basis	-1 to +1	+, both variables
rank order	$r_s = 1 - \frac{\sigma(2 - r_s)}{m(2 - r_s)}$	$r_{\rm s}^2$ (rho) ² is a PRE measure. Error is reduced by		move together,
cor. (rho) (<i>r</i> _s)	$N(N^2-1)$	that amount when we know IV. Most popular.		- inverse
Strength level for	or all but Contingency Coefficient (C) is: .00	10 no relationship; $.4065 = \text{stree}$	ong;	1.0 perfect

20-.40 = weak to moderate;

.65-.09 = very strong;

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Test	Formula	Use	Measure of Association	Notes
Chi-square (x ²) contingency table	$x^{2} = \sum \frac{(O - E)^{2}}{E}$ $E = \frac{(ColumnN)(RowN)}{TotalN}$ (O = observed frequency; E = expected frequency in each cell.) $DF = (r-1) (c-1)$	-Nominal or Ordinal -Independent samples -Expected cell <i>f</i> ≥ 5	Phi (f) (use w/ 2x2 table) Contingency Coefficient (C) (use w/ >2 categories) Cramer's V (V) (use w/ > 2 categories) Gamma (?) (use w/ ordinal) Lambda (?) (use w/ asymmetric data) Somer's d (d) (use with ordinal that are tied on DV) Tau-b (use with ordinal that are tied on x but not on y) Yule's Q (Q) (use in place of Gamma for 2x2 tables) Spearman's rank order correlation (rho) (r _s) (used for variables ranked by case)	f^2 is used for variance once you convert to percentage, represents the amount of variation in the DV accounted for by the IV. PRE measures are used to determine how much more accurate the estimate of the DV is with IV information than without that info.
Yates' Correction $(x^2_{corrected})$ for continuity	$x^{2}_{corrected} = \sum \frac{(O - E - 0.5)^{2}}{E}$ $E = \frac{(ColumnN)(RowN)}{TotalN}$ $DF = (r-1)(c-1)$	-Nominal or Ordinal -Independent sample -Cell <i>f</i> < 5	Same	Same
Kruskal- Wallis test (H)	$H = \frac{12}{N(N+1)} \left[\frac{s_1^2}{N_1} + \frac{s_2^2}{N_2} + \frac{s_3^2}{N_3} \right] - 3(N+1)$ DF = k-1	Ordinal data when ranked	Eta $\boldsymbol{h}^2 = \frac{H}{N-1}$	Can use eta here since ranked data are treated as continuous data

Table 5. Hypothesis Testing for Discrete Data (Nonparametric Statistics). All Alpha levels follow the .05, .01, or .001 convention.

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Test	Formula	Use	Alpha level	Rule	df	Measure of Association	Notes
Z score	$Z = \frac{x - \overline{X}}{s}$	Determine difference between a score and mean	N/A	N/A	N/A	N/A	Look up either Z score or probability between score and mean in "Areas of Normal Curve" chart
Decision Rule (z)	$z = \frac{\overline{X} - \mathbf{m}}{\mathbf{s}/\sqrt{N}}$	Determine difference for 2 groups of scores	.05, .01, or .001	Retain if $< t_{crit}$ Reject if $\ge t_{crit}$	N/A	N/A	
Student's t (t-test) – independent means	$t = \frac{\overline{X}_{1} - \overline{X}_{2}}{\left(\sqrt{\frac{N_{1}S_{1}^{2} + N_{2}S_{2}^{2}}{N_{1} + N_{2} - 2}}\right)\sqrt{\frac{N_{1} + N_{2}}{(N_{1})(N_{2})}}$	Total N is less than 120 and means are independent	.05, .01, or .001	Retain if $< t_{crit}$ Reject if $\ge t_{crit}$	N - 2; when 2 is the # of groups	Eta $\boldsymbol{h}^2 = \frac{t^2}{t^2 + df}$	Must decide if one or two tailed Use % of h^2 to get the variance explained.
Correlated or dependent means (t-test)	$t = \frac{\overline{X}_1 - \overline{X}_2}{\sqrt{\frac{\sum D^2 - \frac{(\sum D)^2}{N}}{N(N-1)}}}$	Total N is less than 120 and means are dependent	.05, .01, or .001	Retain if < t _{crit} Reject if ≥t _{crit}	N-1	Eta $\mathbf{h}^2 = \frac{t^2}{t^2 + df}$	Must decide if one or two tailed Use % of h^2 to get the variance explained.
ANOVA- Analysis of Variance	$F = \frac{MS_{BETWEEN}}{MS_{WITHIN}} *$ * Must use SS formulas to get MS _{BETWEEN} and MS _{WITHIN} when doing calculations by hand.	Comparison of grouped data using variance	.05, .01, or .001	Retain if $< F_{crit}$ Reject if $\ge F_{crit}$	$df_{b} = k - 1$ $df_{w} = N - k$	Eta $\boldsymbol{h}^2 = \frac{SS_{BETWEEN}}{SS_{TOTAL}}$	Use Scheffé Test to determine which means differ

Table 6. Testing Hypotheses for Continuous Data (Parametric Statistics)

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MULTIVARIATE ANALYSIS

Multivariate analysis involves examining a model with many different independent and control variables with one dependent variable. The three most popular forms of multivariate analysis are:

- multiple OLS regression: used when you have a continuous dependent variable and continuous independent variables (or dichotomous independent variables and at least one continuous independent variable)
- logistic regression: used when you have a discrete dependent variable and continuous independent variables.
- path analysis: used when you have mediating variables or expect that the independent variables work through another factor and may have indirect effects on the dependent variable.

See your project director for directions about how to do this for your project.

Very helpful resources:

Morgan, S.E., T. Reichert, and T.R. Harrison, 2002. *From Numbers to Words: Reporting Statistical Results for the Social Sciences.* Allyn and Bacon.

Walsh, A. & J.C. Ollenburger, 2001. *Essential Statistics for the Social and Behavioral Sciences*. Prentice-Hall.

Vogt, W. P., 1999. *Dictionary of Statistics and Methodology: a Nontechnical Guide for the Social Sciences*. 2nd edition. Sage Publications.

STEP 4: CREATING TABLES AND/OR GRAPHICS

All tables and graphics must have the following elements:

1. Informative Title: describes what appears in the image or what

variables/analysis are presented in the table.

2. **Notes:** located below the table or image to provide additional information needed to interpret the data or to identify its source:

a. data source(s)

- b. time period (when data was collected and the time period of the data)
- c. sample size or data coverage

d. significance levels or notes about the statistics presented (tables only)

3. Legend: if needed, to explain symbolism or truncated variable names

4. **Axis Labels and value labels** (when appropriate if creating a chart) A number of different tables are presented in the following pages. These are by no means the most perfect tables but they will provide some guidance as to some ideas of formatting for different kinds of analyses. Note that the decimal points must always line up. Also, if you are in doubt, pick-up a few Criminology journals and model your tables after their formats.

Variable	Frequency	Percent*
Ethnicity		
Hispanic	400	40
European	600	60
Gender		
Male	863	86.3
Age Groups		
18-29	620	62
30-49	350	35
50+	30	3
Mode of Conviction		
Guilty Pleas	915	91.5
Bench Trials	56	5.6
Jury Trials	29	2.9
In/Out		
Not Incarcerated	363	36.3
Incarcerated	637	63.7

 Table 7. Sample Characteristics for the Victimization Study, 2000.

* Valid percents reported.

Table 8. Comparing the DUI Survey respondents with theUndergraduate Campus Population for the 2000 – 2001 Academic Year.

Demographic Variables	Survey Respondents ^a	Undergraduate Population (Fall 2000) ^b
Status	(440)	
Freshman	16.4 %	22.8 %
Sophomore	21.4	13.6
Junior	32.5	28.3
Senior	29.8	35.3
Average Age	22.1 (443)	25.4 years

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Female	54.1% (451)	62.9 %
Ethnicity	(444)	
Hispanic	30.0	28.9 %
African American	8.6	10.7
White European	41.4	39.2
Asian	6.3	8.1
Mixed	13.7	13.1
Majors	(441)	
Arts and Letters	23.4	28.6 %
Business	19.0	20.9
Education	2.7	0.3
Natural Sciences	17.0	18.6
Social Sciences & Behavioral	32.9	22.8
Undecided	5.0	8.9
Average Credit Load	14.39 units (441)	12.99 units
Working	(447)	
Not working	20.0	Not available
Up to 20 hrs/week	27.3	
21- 40 hrs/week	40.7	
40+ hrs/week	13.0	
Living Arrangements	(447)	
Live with Parents	42.5	Not available
Roommates	32.7	
Significant Other	9.6	
Alone	10.1	
Combination	5.1	

Notes:

^a While 470 students responded to the survey, 18 were removed because they were graduate students. This brings the total sample size to 452. There was no attempt to capture a representative proportion of graduate students. Valid percents used for survey respondents.

^b Campus figures are for undergraduate students only and do not include extended education or certificate program students. These figures are generated by the Office of Institutional Research and reported in the Annual Statistical Factbook (2001).

Variable	Mean	S.D.	Minimum	Maximum
Estimated for Both Scenarios				
CB Ratio (Sub to/Exercised)	.50	.27	.12	1.32
Sex (Female $= 1$)	.49	.50	0.00	1.00
Religiosity	.34	.39	0.00	1.00
Low Self-Control	37.12	10.45	16.00	67.00
Age	22.83	4.24	18.00	46.00
Predation Specific				
Intentions to Commit Predation	.42	.24	0.00	1.00
Prior Predation	.12	.36	0.00	1.00
Moral Beliefs –Predation	6.19	2.79	0.00	10.00
Peers Commit Predation	6.01	3.65	0.00	10.00
Perceived Risk – Predation	6.07	2.95	0.00	10.00
Exciting to Commit Predation	3.10	3.69	0.00	10.00
Defiance Specific				
Intentions to Commit Defiance	.51	.50	0.00	1.00
Prior Unwanted Sex	.18	.52	0.00	3.00
Moral Beliefs – Defiance	5.79	3.45	0.00	10.00
Peers Commit Defiance	3.33	3.19	0.00	10.00
Perceived Risk – Defiance	2.59	2.71	0.00	10.00
Exciting to Commit Defiance	4.85	3.92	0.00	10.00

Table 9. Mean, Standard Deviation and Range for Self Control, 1996 (N=100).

Table 10. OLS Regression Analysis of Homicide Rates (1999-2001).

	Family Homicide			Acq	Acquaintance Homicide			Stranger Homicide		
Variable	b	\$	t Ratio	b	\$	t Ratio	b	\$	t Ratio	
Gini Index	3.56*	.59	2.44	2.38	.18	1.67	4.21*	.21	2.22	
Percent Black	.03	.14	1.90	.03*	.15	2.2	.00	02	34	
Unemployment	.04	.14	2.09	.07*	.22	2.78	.05	.14	1.61	
Divorce Rate	.03	.32	3.33	.03*	.56	7.24	.02*	.98	4.31	
South	.22	.10	1.39	.22	.09	1.98	04	02	36	
Inverse Population	.00	.19	1.90	.00	.33	1.35	.00	.00	07	
Percent Young	50*	16	-3.00	.00	.00	01	09	66	56	
Poverty	60*	16	-3.09	70	67	-3.48	10*	30	-4.12	
Log Density	22	19	-2.44	.00	.00	01	.19	03	.96	
Pop. Change 80-92	.00	.09	.80	.00	.02	.09	.06	.15	1.57	
City Share	52*	-1.62	-2.28	30	09	-1.25	46	80	-1.73	
Constant	1.05			49			-2.09			
Adjust R ²	.49			.67			.40			

* Significant at p < .05.

	Iı	It	Intent to drive drunk			
		М				
	Men	Women	t	Men	Women	t
Variable	(n=280)	(n=324)	ratio	(n=280)	(n=324)	ratio
Low Control	78.90	68.35	-4.56*	64.58	68.33	-4.48*
Shame	7.95	7.25	3.40**	8.12	7.52	2.66**
Priors	57.04	34.23	5.64*	48.99	34.39	5.04*
Pleasure	1.60	2.30	-3.26**	1.62	2.43	-3.89**
Sanctions	4,705.30	5,036.03	4.93*	3,805.82	4,078.50	4.90*
Morals	0.78	0.84	-1.05	2.02	2.02	-3.51**
Intent to	2.43	2.34	-3.89**			
shoplift						
Intent to drive				2.00	2.56	-4.80**
drunk						

Table 11. t-Test Results for Difference of Means in Factors of
Social Control (N=604).

**p*<.001; **p*<.01

Table 12. Frequencies, Coding, and Factor and ReliabilityAnalysis of Dependent Variables (N = 100).

Dependent Variables	Percent				
	Shame at	Shame at			
	Wave 1	Wave 3			
I certainly feel useless at times.					
4 = Strongly Agree	7.8 %	3.7%			
3 = Agree	38.3%	30.5%			
2 = Disagree	32.5%	31.9%			
1 = Strongly Disagree	12.3%	11.6%			
Missing	9.1%	22.3%			
Factor Loading	.790	.821			
My plans hardly ever work out, so planning really makes me unhappy.					
4 = Strongly Agree	4.8%	2.9%			
3 = Agree	13.0%	11.8%			
2 = Disagree	48.3%	45.9%			
1 = Strongly Disagree	25.3%	16.9%			
Missing	8.5%	22.6%			
Factor Loading	.661	.721			
Scale Alpha	.772	.785			

			Low SE	S		_		High SE	S	
Variable	В	SE(<i>B</i>)		Wald	Exp(<i>B</i>)	В	SE(<i>B</i>)		Wald	Exp(<i>B</i>)
Low Birth Weight	2.56	.65		5.53*	5.13	.58	.38		2.96	1.20
SES	11	.07		2.30	.90	03	.01		5.55*	.97
Weak Family Structure	.23	.13		2.10	1.01	.02	.07		.04	1.02
Gender	.64	.33		.97	1.90	56	.41		1.76	.11
Constant	39	1.09		5.88*	1.14	.11	.55		.08	
Х2			11.26					10.19		
df			5					5		
p			.02					.08		
Model Prediction Rate			68%					63%		

Table 13. Logistic Regression Coefficients Predicting Early Onset by Level of SES.

Table 14. Bivariate Correlations Matrix for Independent Variables and Composite Dependent Variables (N = 428).

Variable	Age	Female	White	Education	Protestant	No	Conservative
						Religion	
Age							
Female	04						
White	.10*	03					
Education	08	06	.22**				
Protestant	.16**	.00	31**	17			
No Religion	20**	.01	.05	03	42**		
Conservative	.30**	.13**	03	13**	.17**	11*	
	ata	05 (1 1				

p* <.05 (two-tailed); *p* <.01 (two-tailed)