

Multiple Regression and Beyond, Second Edition

Second edition data sets and other related files (updated 1/2/2015)

Zip files by chapter	Files Included	Formats	Brief Description
NELS Data: MRB2_NELS.zip	N=1000,stud & par_3.sav	SPSS .sav and .por (portable), Text (.dat and .csv), SAS (.sas7bdat), Stata (.dta)	1,000 students selected at random from the larger National Education Longitudinal Study of 1988, a national survey of 24,000 eighth graders from over 1,000 schools. The data included here are student and parent responses in 8 th grade and student responses in 10 th grade. These data are used throughout the text
	Nels variables.doc; Varlist for nels.spv	Word and SPSS output	Listing of variables in the NELS data set used throughout the text.
Shorter versions of the NELS Data: n=1000, stud & par shorter.zip	n=1000,stud & par shorter.sav; n=1000,stud & par shorter all miss negative 999.dat; n=1000,stud & par shorter all miss blank.dat	SPSS, Excel, and text (.dat)	These shorter versions of the NELS data used in <i>Multiple Regression & Beyond</i> should include only the variables in the longer NELS data that are used in examples and exercises in the text.
	information about the shorter nels files.docx	Word	Explanation of the various files, plus Mplus syntax for reading in one of the text files
Chapter 1 (Simple regression): MRB2_ch1.zip	homework & ach	SPSS, Excel, text	Simulated homework and math achievement data used in Chapter 1. N=100
Chapter 2 (Intro MR): MRB2_ch2.zip	Chap2, hw grades.sav	SPSS, Excel, text	Simulated data for measures of grades, time spent on homework, and parent education level. N=100.
	Exercise 4, grades, ed, income.sav	SPSS, Excel, text	Data for exercise 4: grades, parent education, and family income, N=200
Chapter 3 (More detail): MRB2_ch3.zip	Chap 2, hwork grades data.sav	SPSS, Excel, text	Same data as in chapter 2.
Chapter 4 (More IVs): MRB2_ch4.zip	Tiggeman & Lynch simulated data.sav	SPSS, Excel, text	Eating disorders data simulated to mimic variables from Tiggeman and Lynch (2001). N=322. Exercise 3.

	Depression advertising.sav	SPSS, Excel, text	Effects of advertising for depression medications, data simulated to mimic variables from Park & Grow (2008). $N=221$, Exercise 5.
	Common cause 1.sav, Common cause 2.sav	SPSS, Excel	Data to explore the nature of common causes, and the effects of inclusion of non-common causes in a regression. Exercise 6, 2 data sets, each with $N=500$
Chapter 5 (3 types MR): MRB2_ch5.zip	Sethi & Seligman simulated.sav	SPSS, Excel, text	Simulated data based on Sethi and Seligman (1993) to examine the effect of religious variables on optimism, exercise 3. $N=600$.
	Duckworth Seligman sim data.sav	SPSS, Excel, text	Simulated data based on Duckworth and Seligman (2005). Effects of self-discipline on academic performance, $N=154$.
Chapter 6 (Categorical variables): MRB2_ch6.zip	False memory data, 3 groups.sav	SPSS, Excel, text	Effects of sexual abuse on false memories, based on Bremner, Shobe, and Kihlstrom (2000). $N=60$.
	False memory data, 4 groups.sav	SPSS, Excel, text	False memory data for exercise 4; includes four groups rather than three. $N=80$.
	Homework experiment data.sav	SPSS, Excel	Simulated experiment with children assigned to drill, practice, or extension homework, $N=60$
Chapter 7 (Categorical & continuous): MRB2_ch7.zip	Kranzler et al simulated data.sav	SPSS, Excel, text	Analysis of test bias data simulated to mimic Kranzler, Miller, and Jordan (1999), $N=100$.
	ATI data.sav	SPSS, Excel, text	Aptitude-treatment interaction simulated data loosely based on Brady & Richman, 1994, $N=100$.
	ATI data b.sav	SPSS, Excel, text	Another simulated ATI data set, $N=100$, exercise 4.
	ANCOVA exercise.sav	SPSS, Excel, text	Pretest-posttest control group design: effectiveness of two different methods of teaching research. Exercise 5, $N=60$
	Alexander et al abuse.sav	SPSS, Excel	Data designed to simulate some of the variables from Alexander et al., 2005. Use for exercise 6 to study the effects of traumatic events and PTSD symptoms on recall of abuse details later in life. $N=94$.
Chapter 8 (Continuous interactions & curves): MRB2_ch8.zip			
	TV ability interact2.sav	SPSS, Excel, text	Simulated data to examine the possible interaction of TV viewing and ability in their effect on achievement (based on Keith et al., 1986). $N=500$.

Chapter 9 (Summary, assumptions, diagnostics): MRB2_ch9.zip	Chap2, hw grades.sav	SPSS, Excel, text	Homework grades simulated data from chapter 2
	Problems with MR 3.sps	SPSS syntax file	SPSS syntax to conduct regression using a correlation matrix, means, and <i>SDs</i> . Correlations from Keith and Cool (1992).
Chapter 10 (Logistic & multilevel): MRB2_ch10.zip	Nels smaller 3.sav	SPSS, Excel	4,630 students from NELS for use in the multilevel modeling example. Also many fewer variables than the larger NELS data file
Chapter 11 (Intro path analysis): MRB2_ch11.zip	Path model via MR.sps	SPSS syntax file	SPSS syntax file to conduct path analysis via MR, three variable example.
	Motivate 5 var path.sps	SPSS syntax file	SPSS syntax file to conduct path analysis via MR, five-variable example. This is the same example that was used in Chapter 9, but set up to do path analysis.
	Solve total effects.sps	SPSS syntax file	SPSS syntax file to calculate total effects via sequential regression. For the five-variable example.
	Hansen accident data.sav	SPSS, Excel	Path model example from Hansen (1989): influences on accidents among chemical industry workers. Simulated data, <i>N</i> =362
Chapter 13 (Path via SEM programs): MRB2_ch13.zip	Pi matrix, listwise.xls	SPSS, Excel, text (.dat)	Parent involvement → grades example from the chapter, <i>N</i> =811, matrix data
	PI example 1.amw	Amos graphics	Parent involvement → grades example from the chapter, Amos setup.
	PI example.inp	Mplus input	Parent involvement → grades example from the chapter, Mplus setup. Use with the text version of the data
	Create corr matrix in spss.sps	SPSS syntax	Syntax to get SPSS to create a correlation matrix in the format used by Amos.
	Homework overid 1.xls	Excel, SPSS, text (.txt)	Homework → grades example from the chapter, <i>N</i> =1000, matrix data
	Homework path 1.amw	Amos graphics	Homework → grades example from the chapter, Amos setup.
	Homework path 1.inp	Mplus input	Homework → grades example from the chapter, Mplus setup.
	Trust norec sim data.xls	Excel	Nonrecursive model of trust in male-female relationships, based on Butler, 2001. <i>N</i> =300, matrix data

	Trust nonrecursive model.amw	Amos graphics	Nonrecursive model of trust in male-female relationships, Amos setup.
	Stress burnout longitudinal.xls	Excel	Effects of stress on burnout, longitudinal model, based on McManus and colleagues (2002). $N=331$, matrix data
	Stress burnout longitudinal 5.amw	Amos graphics	Effects of stress on burnout, longitudinal model, based on McManus and colleagues (2002), Amos setup
	Henry et al.sav	SPSS, Excel	Longitudinal effects of peer delinquency and violence on boys, based on Henry and colleagues (2001). $N=247$, raw data, exercise 5.
	Henry et al.amw	Amos graphics	Longitudinal effects of peer delinquency and violence on boys, Henry and colleagues (2001), Amos setup
	Common cause 1.sav, Common cause 2.sav, Common cause 3.sav	Excel, text	
Chapter 15 (CFA I): MRB2_ch15.zip	DAS 2 cov.xls, das 2 cov.sav, dat2 cov.text	Excel, SPSS, text	Differential Ability Scales CFA example from chapter, matrix data, $N=200$.
	DAS 2 first order 1.amw, DAS-II first 1.inp	Amos graphics (.amw), Mplus (.inp)	Differential Ability Scales, second edition, CFA example from chapter, Amos and Mplus setup
	DAS-II higher order 1.inp	Mplus	Mplus setup for the DAS-II initial higher-order model.
	DAS 5-8 simulated 6.sav	SPSS, Excel, text	Differential Ability Scales CFA example for exercise 3, simulated raw data, $N=500$.
Chapter 16 (Latent variable SEM I): MRB2_ch.zip	Buhs & Ladd data.sav	SPSS, Excel, text	Simulated academic and emotional adjustment in Kindergarten, based on Buhs and Ladd (2001). Simulated raw data, $N=399$.
	Buhs & Ladd 1.amw, Buhs & Ladd 1.inp	Amos graphics, Mplus	Academic and emotional adjustment in Kindergarten, based on Buhs and Ladd (2001), Amos setup (.amw) and Mplus setup (.inp)
	Head start.xls	Excel. text	Classic head start effects analysis, matrix data, $N=301$, for exercise 2.

	Sorjonen et al simulated 7.sav	SPSS, Excel, text (.dat)	Effects of intelligence, family of origin SES, and emotional capacity on occupational status of Swedish men. Data simulated to mirror Sorjonen and colleagues, 2012, $N=1000$
Chapter 17 (Latent variable SEM II, more advanced): MRB2_ch17.zip	HW latent matrix.xls	Excel, text	Homework → Grades latent variable example from chapter, matrix data, $N=1000$
	HW latent 1.amw	Amos graphics	Homework → Grades latent variable example from chapter, Amos setup.
	Majority matrix.xls, Minority matrix.xls	Excel	Data (matrix format) for the multi-group Homework→Grades SEM example from the chapter, $N=751$ (majority), 274 (minority)
	HW MG data.txt	text	Data (matrix format) for the multi-group Homework→Grades SEM example from the chapter, $N=751$ (majority), 274 (minority), both matrices in a text file
	Initial multi group model	Amos graphics (.amw), Mplus (.inp)	Initial setup for the multi-sample Homework→Grades model.
	Eisenberg et al 2001.sav	SPSS, Excel, text	Exercise 2, simulated data based on Eisenberg and colleagues (2001), mothers' emotions→children's behavior. $N=176$.
	Eisenberg et al 1	Amos graphics, Mplus	Initial Amos (.amw) and Mplus (.inp) model for the Eisenberg et al exercise (exercise 2)
	SC locus ach matrix n12k.xls	Excel, text	Latent variable panel model: locus of control and achievement, exercise 3, $N=12572$
	Codebook for sc locus ach data.docx	Word	Codebook for the variables in the latent variable panel model (exercise 3)
Chapter 18 (Latent means in SEM): MRB2_ch18.zip	Math & hwork means.sav	SPSS, text	Two-variable example to illustrate how means and intercepts are displayed in SEM programs. Math homework and math achievement data from NELS.
	Homework means.sav	SPSS, text (.csv)	Eighth through 12 th grade data from NELS: effect of homework on Grades. Used in the chapter & in exercise 2.
	Hot flash simulated.sav	SPSS, text	Hypnosis & hot flash experiment data designed to simulate Elkins et al., 2008. Used in the chapter & in exercise 1. $N=96$.
	Homework means.amw or .inp	Amos graphics, Mplus	Initial model for exercise 2. The model is for a single group; you need to use it to develop an MG-MACS model to test for sex differences on the effects of homework on grades.

Chapter 19 (CFA-II, latent means & invariance): MRB2_ch19.zip	Kabc cfa matrices.xls Male female matrices.csv Kabc mimic matrix.csv	Excel, text (.csv)	Matrices to conduct the CFA invariance tests in this chapter. The .xls file has the female and male matrices for the MG-MACS analysis on two worksheet and the MIMIC matrix on a third. The .csv files (for use in Mplus) include 1 file with both the male and female matrices and one with the MIMIC matrix.
	Configural kabc.amw or .inp		Initial KABC model (configural invariance)
	Sc loc matrix 2.xls Boy girl sc loc matrix.csv Total sc loc matrix.csv	Excel, text (.csv)	Matrices for Exercise 3: invariance & latent means for self-concept and locus of control across the sexes. The .xls file contains all matrices. The .csv files include one for an MG-MACS setup (boy girl sc loc matrix.csv) and one for a MIMIC setup (total sc loc matrix.csv)
Chapter 20 (Latent growth models): MRB2_ch20.zip	Math growth final.sav	SPSS, text (.csv)	Chapter example and exercise 1. Simulated data loosely based on DiPerna, Lei, and Reid (2007). Latent growth model of math achievement, $N=1000$.
	Simple growth.amw or .inp	Amos graphics, Mplus	Initial unconditional math achievement growth model for Amos and Mplus
	Curran et al alcohol.xls	Excel, text	Exercise 2, growth in alcohol use data simulated to mimic Curran, Stice, & Chassin, 1997. $N=363$
Appendix A (Data Sets)	See MRB2_NELS.zip for the NELS data		
Appendix B (Basic stats): MRB2_App_Basics.zip	IQ Achieve.sav	SPSS, Excel, text	Appendix B, simulated IQ and Achievement data, $N=30$.
	t test.sav	SPSS, Excel, text	Appendix B, simulated depression data for t -test illustration, $N=40$.
	CBT 2way.sav	SPSS, Excel, text	Appendix B, simulated depression data to illustrate a 2-way ANOVA, $N=80$.
Appendix C (Partial & semipartial corrs): MRB2_App_Partial.zip	Nels optimism partial 11 item.sav	SPSS, Excel	