

Program written by DETECT for Windows

MULTIPLE-RELATIONSHIP ANALYSIS FROM SECTION 5.6

13 1 1 2 2 0 0 0 5 6 2 0 1 0 0

NEGOTITN

SATISFTN

(3F2.0,2F1.0,F2.0,2F2.0)

DDDDDDD	EEEEEEEE	TTTTTTTT	EEEEEEEE	CCCCC	TTTTTTTT	
DDDDDDDD	EEEEEEEE	TTTTTTTT	EEEEEEEE	CCCCCCC	TTTTTTTT	
DD	DD	EE	TT	EE	CC	TT
DD	DD	EE	TT	EE	CC	TT
DD	DD	EEEE	TT	EEEE	CC	TT
DD	DD	EEEE	TT	EEEE	CC	TT
DD	DD	EE	TT	EE	CC	TT
DD	DD	EE	TT	EE	CC	TT
DDDDDDDD	EEEEEEEE	TT	EEEEEEEE	CCCCCCC	TT	
DDDDDDD	EEEEEEEE	TT	EEEEEEEE	CCCCC	TT	

DATA ENQUIRY THAT TESTS ENTITY AND
 CORRELATIONAL/CAUSAL THEORIES
 PROGRAM TITLE
 MULTIPLE-RELATIONSHIP ANALYSIS FROM SECTION 5.6

TABLE I
GENERAL INFORMATION LINE

ENTRY	MEANING	CODE
ONE	DATA INPUT FROM FILE	13,
TWO	OUTPUT TO FILE 8 ONLY. OPTION	1,
THREE	REGULAR TABLES OUTPUT. OPTION	1,
FOUR	SELECTED TABLES OUTPUT. OPTION	2,
FIVE	POSITION OF FIRST CELL INDICATOR	2,
SIX	NO SECOND CELL INDICATOR	0,
SEVEN	NUMBER OF ADDITIONAL LEVELS OF ANALYSIS	0,
EIGHT	MULTIPLE-VARIABLE ANALYSIS DELETED. OPTION	0,
NINE	POSITION OF MULTIPLE-RELATIONSHIP ANALYSIS INDICATOR	5,
TEN	NUMBER OF VARIABLES NOT TO BE ANALYZED	6,
ELEVEN	NUMBER OF VARIABLES TO BE ANALYZED	2,
TWELVE	LABELS INPUT WITH PROGRAM. OPTION	0,
THIRTEEN	NUMBER OF LINES READ FOR FORMAT STATEMENT	1,
FOURTEEN	NO MISSING VALUES. OPTION	0,
FIFTEEN	DATA TRANSFORMATIONS DELETED. OPTION	0

TABLE II
DETAILED INFORMATION LINE

ENTRY	MEANING	CODE
ONE	TOTAL NUMBER OF LINES PER PAGE	61,
TWO	INFORMATION TABLES PRINTED (TABLES I,II AND III) OPTION	1,
THREE	NUMBER OF ENTRIES FOR CELL FREQUENCIES (TABLE CF)	23,
	NUMBER OF ENTRIES IN AVERAGE AND DISPERSION TABLES	
FOUR	ACROSS ALL CASES (TABLE AT)	20,
FIVE	BY CELLS (TABLE AC)	0,
SIX	BY VARIABLES (TABLE AV)	0,
	NUMBER OF ENTRIES IN WABA TABLES	
SEVEN	WABA I (TABLE WI)	15,
EIGHT	WABA II (TABLES WIID,WIIM AND WTC)	15,
	NUMBER OF ENTRIES IN MULTIPLE-VARIABLE ANALYSIS	
NINE	WITHIN-CELL (TABLE MVAW)	0,
TEN	BETWEEN-CELL (TABLE MVAB)	0,
ELEVEN	CORRELATION MATRIX DELETED. OPTION	0,
TWELVE	DEVIATIONS NOT OUTPUT. OPTION	0,
THIRTEEN	ENTRIES IN MULTIPLE-RELATIONSHIP ANALYSIS (TABLE MRA)	2,
FOURTEEN	SEQUENCING PACKAGE CALLED. OPTION	1,
FIFTEEN	EXTRA ROUNDING DELETED. OPTION	0

TABLE III
ADDITIONAL INFORMATION

ADDITIONAL CELL INDICATOR LINE(S) GIL ENTRY SEVEN = 0
NO LINES READ
LABEL LINE(S) GIL ENTRY TWELVE = 0
NEGOTITN
SATISFTN
FORMAT LINE(S) GIL ENTRY THIRTEEN = 1
(3F2.0,2F1.0,F2.0,2F2.0)

MISSING VALUES LINE(S) GIL ENTRY FOURTEEN = 0
NO LINES READ
DATA TRANSFORMATION LINE(S) GIL ENTRY FIFTEEN = 0
NO LINES READ
NUMBER OF CASES FOR ANALYSIS
40

TABLE CF
(LEVEL = 1 CONDITION = 2)
CELL FREQUENCIES

CELL ID NUMBER	CELL SIZE
1	2
4	2
7	2
33	2
36	2
3	2
6	2
31	2
34	2
37	2

TABLE AT
 (LEVEL = 1 CONDITION = 2)
 AVERAGES AND DISPERSIONS ACROSS ALL CASES

VARIABLE	AVERAGE	AVERAGE SUMS OF SQUARES		
	TOTAL SCORE	TOTAL	BETWEEN	WITHIN
NEGOTITN	19.50000	24.05000	1.00000	23.05000
SATISFTN	21.00000	18.60000	1.60000	17.00000
TOTAL NUMBER OF CASES	20			

TABLE WI
 (LEVEL = 1 CONDITION = 2)
 WITHIN AND BETWEEN ANALYSIS I

	ETA CORRELATIONS			F RATIOS		
	BETWEEN	WITHIN	E RATIO INDUCTION	BETWEEN	WITHIN	PROB
NEGOTITN	0.20391	0.97899	0.20829 PARTS-30		20.74500	0.0001
SATISFTN	0.29329	0.95602	0.30679 PARTS-30		9.56250	0.0011
AVERAGES	0.24860	0.96751	0.25754	0.00000	15.15375	

PRACTICAL SIGNIFICANCE CRITERIA

WHOLES - 15	E > OR =	1.30323
WHOLES - 30	E > OR =	1.73205
PARTS - 15	E < OR =	0.76733
PARTS - 30	E < OR =	0.57735

DEGREES OF FREEDOM FOR (BETWEEN)	F-RATIO =	9,	10
DEGREES OF FREEDOM FOR (WITHIN)	F-RATIO =	10,	9

TABLE WIID
 (LEVEL = 1 CONDITION = 2)
 WITHIN AND BETWEEN ANALYSIS II (DIFFERENCE TESTS)

 CORRELATIONS

	BETWEEN	WITHIN	A-VALUE	INDUCTION	Z-VALUE
NEGOTITN					
SATISFTN	-0.31623	0.82343	-0.64568	PARTS-30	-1.62291
AVERAGES	-0.31623	0.82343	-0.64568		-1.62291

 PRACTICAL SIGNIFICANCE CRITERIA

WHOLES - 15	A	>	OR	=	0.26180
WHOLES - 30	A	>	OR	=	0.52360
PARTS - 15	A	<	OR	=	-0.26180
PARTS - 30	A	<	OR	=	-0.52360

 *P < OR = .05

**P < OR = .01

TABLE WIIM
 (LEVEL = 1 CONDITION = 2)
 WITHIN AND BETWEEN ANALYSIS II (MAGNITUDE TESTS)

		BETWEEN			WITHIN		
	R TEST IND*	T TEST	PROB	R TEST IND*	T TEST	PROB	
NEGOTITN							
SATISFTN	0.33333 S-15	0.94281	0.3734	1.45120 S-30	4.35359	0.0018	
AVERAGES	0.33333	0.94281		1.45120	4.35359		
PRACTICAL SIGNIFICANCE CRITERIA							
S - 15	R > OR = 0.26795			0.26795			
S - 30	R > OR = 0.57735			0.57735			
DEGREES OF FREEDOM FOR (BETWEEN)		T TEST = 1,		8		* INDICATES	
DEGREES OF FREEDOM FOR (WITHIN)		T TEST = 1,		9		INDUCTION	

TABLE WTC
 (LEVEL = 1 CONDITION = 2)
 TOTAL CORRELATION AND COMPONENT ANALYSIS

	TOTAL				COMPONENTS		
	CORRELATION	R TEST	T TEST	PROB	BETWEEN	WITHIN	INDUCTION
NEGOTITN							
SATISFTN	0.75177	1.14003	4.83672	0.0001	-0.01891	0.77068	PARTS-30
AVERAGES	0.75177	1.14003	4.83672		-0.01891	0.77068	

PRACTICAL SIGNIFICANCE CRITERIA

WHOLES-15	E(1) AND E(2)	> OR =	1.30323	AND A(1+2)	> OR =	0.26180
WHOLES-30	E(1) AND E(2)	> OR =	1.73205	AND A(1+2)	> OR =	0.52360
PARTS-15	E(1) AND E(2)	< OR =	0.76733	AND A(1+2)	< OR =	-0.26180
PARTS-30	E(1) AND E(2)	< OR =	0.57735	AND A(1+2)	< OR =	-0.52360

DEGREES OF FREEDOM FOR (TOTAL) T TEST = 1, 18

TABLE CF
(LEVEL = 1 CONDITION = 1)
CELL FREQUENCIES

CELL ID NUMBER	CELL SIZE
2	2
8	2
10	2
35	2
39	2
5	2
9	2
32	2
38	2
40	2

TABLE AT
 (LEVEL = 1 CONDITION = 1)
 AVERAGES AND DISPERSIONS ACROSS ALL CASES

VARIABLE	AVERAGE	AVERAGE SUMS OF SQUARES		
	TOTAL SCORE	TOTAL	BETWEEN	WITHIN
NEGOTITN	18.90000	21.69000	2.54000	19.15000
SATISFTN	20.70000	12.41000	0.76000	11.65000
TOTAL NUMBER OF CASES	20			

TABLE WI
 (LEVEL = 1 CONDITION = 1)
 WITHIN AND BETWEEN ANALYSIS I

	ETA CORRELATIONS			F RATIOS		
	BETWEEN	WITHIN	E RATIO INDUCTION	BETWEEN	WITHIN	PROB
NEGOTITN	0.34221	0.93963	0.36419 PARTS-30		6.78543	0.0041
SATISFTN	0.24747	0.96890	0.25541 PARTS-30		13.79605	0.0003
AVERAGES	0.29484	0.95426	0.30980	0.00000	10.29074	

PRACTICAL SIGNIFICANCE CRITERIA

WHOLES - 15	E > OR =	1.30323
WHOLES - 30	E > OR =	1.73205
PARTS - 15	E < OR =	0.76733
PARTS - 30	E < OR =	0.57735

DEGREES OF FREEDOM FOR (BETWEEN) F-RATIO = 9, 10
 DEGREES OF FREEDOM FOR (WITHIN) F-RATIO = 10, 9

TABLE WIID
 (LEVEL = 1 CONDITION = 1)
 WITHIN AND BETWEEN ANALYSIS II (DIFFERENCE TESTS)

 CORRELATIONS

	BETWEEN	WITHIN	A-VALUE	INDUCTION	Z-VALUE
NEGOTITN					
SATISFTN	-0.20153	0.87370	-0.85984	PARTS-30	-2.21078*
AVERAGES	-0.20153	0.87370	-0.85984		-2.21078

 PRACTICAL SIGNIFICANCE CRITERIA

WHOLES - 15	A	>	OR	=	0.26180
WHOLES - 30	A	>	OR	=	0.52360
PARTS - 15	A	<	OR	=	-0.26180
PARTS - 30	A	<	OR	=	-0.52360

 *P < OR = .05

**P < OR = .01

TABLE WIIM
 (LEVEL = 1 CONDITION = 1)
 WITHIN AND BETWEEN ANALYSIS II (MAGNITUDE TESTS)

	BETWEEN			WITHIN		
	R TEST IND*	T TEST	PROB	R TEST IND*	T TEST	PROB

NEGOTITN						
SATISFTN	0.20575	0.58195	0.5766	1.79603 S-30	5.38810	0.0004
AVERAGES	0.20575	0.58195		1.79603	5.38810	

PRACTICAL SIGNIFICANCE CRITERIA						
S - 15	R > OR = 0.26795			0.26795		
S - 30	R > OR = 0.57735			0.57735		

DEGREES OF FREEDOM FOR (BETWEEN)	T TEST = 1,			8	* INDICATES INDUCTION	
DEGREES OF FREEDOM FOR (WITHIN)	T TEST = 1,			9		

TABLE WTC
 (LEVEL = 1 CONDITION = 1)
 TOTAL CORRELATION AND COMPONENT ANALYSIS

	TOTAL				COMPONENTS		
	CORRELATION	R TEST	T TEST	PROB	BETWEEN	WITHIN	INDUCTION
NEGOTITN							
SATISFTN	0.77835	1.23975	5.25980	0.0001	-0.01707	0.79542	PARTS-30
AVERAGES	0.77835	1.23975	5.25980		-0.01707	0.79542	

PRACTICAL SIGNIFICANCE CRITERIA

WHOLES-15	E(1) AND E(2) >	OR = 1.30323	AND A(1+2) >	OR = 0.26180
WHOLES-30	E(1) AND E(2) >	OR = 1.73205	AND A(1+2) >	OR = 0.52360
PARTS-15	E(1) AND E(2) <	OR = 0.76733	AND A(1+2) <	OR = -0.26180
PARTS-30	E(1) AND E(2) <	OR = 0.57735	AND A(1+2) <	OR = -0.52360

DEGREES OF FREEDOM FOR (TOTAL) T TEST = 1, 18

TABLE MRA
(LEVEL = 1)
MULTIPLE RELATIONSHIP ANALYSIS

		CORRELATIONS		DIFFERENCES		
		CONDITION 2	CONDITION 1	A	INDUCTION	Z

NEGOTITN						
	SATISFTN	B = -0.31623	B = -0.20153	0.11883		0.23035
	SATISFTN	W = 0.82343	W = 0.87370	-0.09533		-0.36226
	SATISFTN	B = -0.31623	W = 0.87370	-0.74101	PARTS-30	-1.97288*
	SATISFTN	W = 0.82343	B = -0.20153	-0.76452	PARTS-30	-1.86081*

DEGREES OF FREEDOM FOR Z						
	BETWEEN-CELL	7	7			
	WITHIN-CELL	8	8			
PRACTICAL SIGNIFICANCE CRITERIA						
	S-15	A > OR =		0.26180		
	S-30	A > OR =		0.52360		
	WHOLES-15	A > OR =		0.26180		
	WHOLES-30	A > OR =		0.52360		
	PARTS-15	A < OR =		-0.26180		
	PARTS-30	A < OR =		-0.52360		

NOTE B INDICATES BETWEEN-CELL CORRELATION, W INDICATES WITHIN-CELL CORRELATION
*P<.05 **P <. 01