

Program written by DETECT for WINDOWS

MULTIPLE-VARIABLE ANALYSIS FROM SECTION 5.3

13 1 1 2 2 0 0 3 0 6 4 0 1 2 0

NEGOTITN

SATISFTN

PERFORMC

TASKCLAR

(3F2.0,2F1.0,5F2.0)

00000000000000000000

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	

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DATA ENQUIRY THAT TESTS ENTITY AND  
 CORRELATIONAL/CAUSAL THEORIES  
 PROGRAM TITLE  
 MULTIPLE-VARIABLE ANALYSIS FROM SECTION 5.3

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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	BETWEEN- AND WITHIN-CELL MULTIPLE-VARIABLE ANALYSIS. OPTION	3,
NINE	MULTIPLE-RELATIONSHIP ANALYSIS DELETED. OPTION	0,
TEN	NUMBER OF VARIABLES NOT TO BE ANALYZED	6,
ELEVEN	NUMBER OF VARIABLES TO BE ANALYZED	4,
TWELVE	LABELS INPUT WITH PROGRAM. OPTION	0,
THIRTEEN	NUMBER OF LINES READ FOR FORMAT STATEMENT	1,
FOURTEEN	MISSING VALUES INPUT. OPTION	2,
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)	2,
TEN	BETWEEN-CELL (TABLE MVAB)	2,
ELEVEN	CORRELATION MATRIX DELETED. OPTION	0,
TWELVE	DEVIATIONS NOT OUTPUT. OPTION	0,
THIRTEEN	MULTIPLE-RELATIONSHIP ANALYSIS DELETED (TABLE MRA)	0,
FOURTEEN	SEQUENCING PACKAGE CALLED. OPTION	1,
FIFTEEN	EXTRA ROUNDING DELETED. OPTION	0

TABLE III  
ADDITIONAL INFORMATION

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ADDITIONAL CELL INDICATOR LINE(S) GIL ENTRY SEVEN =      0
    NO LINES READ
LABEL LINE(S) GIL ENTRY TWELVE = 0
    NEGOTITN
    SATISFTN
    PERFORMC
    TASKCLAR
FORMAT LINE(S) GIL ENTRY THIRTEEN = 1
    (3F2.0,2F1.0,5F2.0)

MISSING VALUES LINE(S) GIL ENTRY FOURTEEN =  2
    MISSING VALUES READ
DATA TRANSFORMATION LINE(S) GIL ENTRY FIFTEEN =      0
    NO LINES READ
NUMBER OF CASES FOR ANALYSIS
    40
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MISSING DATA REPORT  
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    CASES READ          40
    CASES RETAINED     40
    CASES DELETED       0

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VARIABLE NUMBER    MISSING VALUE    FREQUENCY
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          1          0.00000          0.0
          2          0.00000          0.0
          3          0.00000          0.0
          4          0.00000          0.0
          5          0.00000          0.0
          6          0.00000          0.0
          7          0.00000          0.0
          8          0.00000          0.0
          9          0.00000          0.0
         10          0.00000          0.0
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TABLE CF  
(LEVEL = 1    CONDITION = 1)  
CELL FREQUENCIES

CELL ID NUMBER	CELL SIZE
1	2
7	2
9	2
34	2
35	2
3	2
2	2
10	2
36	2
38	2
4	2
5	2
31	2
37	2
39	2
6	2
8	2
33	2
32	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	19.20000	22.96000	1.86000	21.10000
SATISFTN	20.85000	15.52750	1.20250	14.32500
PERFORMC	22.75000	133.58750	133.26250	0.32500
TASKCLAR	18.75000	51.78750	51.21250	0.57500
TOTAL NUMBER OF CASES	40			

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

ETA CORRELATIONS				F RATIOS		
	BETWEEN	WITHIN	E RATIO INDUCTION	BETWEEN	WITHIN	PROB
NEGOTITN	0.28462	0.95864	0.29690 PARTS-30		10.77688	0.0000
SATISFTN	0.27829	0.96050	0.28973 PARTS-30		11.31705	0.0000
PERFORMC	0.99878	0.04932	20.24941 WHOLES-30	431.61943		0.0000
TASKCLAR	0.99443	0.10537	9.43744 WHOLES-30	93.75286		0.0000
AVERAGES	0.63903	0.51846	7.56837	262.68615	11.04696	
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 =	19,	20
DEGREES OF FREEDOM FOR (WITHIN)				F-RATIO =	20,	19

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

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CORRELATIONS

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	BETWEEN	WITHIN	A-VALUE	INDUCTION	Z-VALUE
NEGOTITN					
SATISFTN	-0.19725	0.84409	-0.80631	PARTS-30	-3.06140**
PERFORMC	0.14133	-0.04773	0.09405		0.27944
TASKCLAR	-0.05891	0.05024	0.00869		0.02572
SATISFTN					
PERFORMC	-0.03456	0.06952	-0.03501		-0.10366
TASKCLAR	0.05256	0.15679	-0.10486		-0.31190
PERFORMC					
TASKCLAR	-0.96793	-0.11566	1.20094	WHOLES-30	5.74288**
AVERAGES	-0.17746	0.15954	0.05958		0.42851

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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

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\*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	0.20121		0.85364 0.4045	1.57421 S-30		6.86184 0.0000
PERFORMC	0.14276		0.60567 0.5523	0.04779		0.20830 0.8372
TASKCLAR	0.05902		0.25039 0.8051	0.05031		0.21927 0.8288
SATISFTN						
PERFORMC	0.03458		0.14672 0.8850	0.06969		0.30376 0.7646
TASKCLAR	0.05264		0.22332 0.8258	0.15876		0.69201 0.4973
PERFORMC						
TASKCLAR	3.85298 S-30		16.34681 0.0000	0.11644		0.50757 0.6176
AVERAGES	0.72386		3.07109	0.33620		1.46546
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,                    18                    * INDICATES						
DEGREES OF FREEDOM FOR (WITHIN) T TEST = 1,                    19                    INDUCTION						

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

	TOTAL				COMPONENTS		
	CORRELATION	R TEST	T TEST	PROB	BETWEEN	WITHIN	INDUCTION
NEGOTITN							
SATISFTN	0.76159	1.17519	7.24437	0.0000	-0.01562	0.77722	PARTS-30
PERFORMC	0.03792	0.03795	0.23391	0.8163	0.04018	-0.00226	
TASKCLAR	-0.01160	0.01160	0.07151	0.9434	-0.01668	0.00508	
SATISFTN							
PERFORMC	-0.00631	0.00631	0.03891	0.9692	-0.00961	0.00329	
TASKCLAR	0.03042	0.03043	0.18758	0.8522	0.01455	0.01587	
PERFORMC							
TASKCLAR	-0.96197	3.52180	21.70983	0.0000	-0.96137	-0.00060	WHOLES-30
AVERAGES	-0.02499	0.79721	4.91435		-0.15809	0.13310	

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,                      38

TABLE MVAW  
 (LEVEL = 1    CONDITION = 1)  
 MULTIPLE VARIABLE ANALYSIS (WITHIN-CELL CORRELATIONS)

CORRELATIONS			DIFFERENCE (ONE - TWO)			
ONE	TWO	THREE	A	IND*	T	PROB
NEGOTITN+	NEGOTITN+	SATISFTN+				
SATISFTN= 0.8441	PERFORMC=-0.0477	PERFORMC= 0.0695	0.9571	S-30	4.6200	0.000
NEGOTITN+	SATISFTN+	NEGOTITN+				
SATISFTN= 0.8441	PERFORMC= 0.0695	PERFORMC=-0.0477	0.9353	S-30	4.4476	0.000
NEGOTITN+	SATISFTN+	NEGOTITN+				
PERFORMC=-0.0477	PERFORMC= 0.0695	SATISFTN= 0.8441	-0.0218		-0.1660	0.870
NEGOTITN+	NEGOTITN+	SATISFTN+				
SATISFTN= 0.8441	TASKCLAR= 0.0502	TASKCLAR= 0.1568	0.9546	S-30	4.8961	0.000
NEGOTITN+	SATISFTN+	NEGOTITN+				
SATISFTN= 0.8441	TASKCLAR= 0.1568	TASKCLAR= 0.0502	0.8474	S-30	4.0390	0.001
NEGOTITN+	SATISFTN+	NEGOTITN+				
TASKCLAR= 0.0502	TASKCLAR= 0.1568	SATISFTN= 0.8441	-0.1072		-0.8297	0.418

PRACTICAL SIGNIFICANCE CRITERIA

S - 15  
 S - 30

A > OR = 0.26180  
 A > OR = 0.52360

DEGREES OF FREEDOM FOR (WITHIN) T = 1,    18

\* INDICATES INDUCTION

TABLE MVAW  
 (LEVEL = 1    CONDITION = 1)  
 MULTIPLE VARIABLE ANALYSIS (WITHIN-CELL CORRELATIONS)

CORRELATIONS			DIFFERENCE (ONE - TWO)			
ONE	TWO	THREE	A	IND*	T	PROB
NEGOTITN+	NEGOTITN+	PERFORMC+				
PERFORMC=-0.0477	TASKCLAR= 0.0502	TASKCLAR=-0.1157	-0.0025		-0.0080	0.994
NEGOTITN+	PERFORMC+	NEGOTITN+				
PERFORMC=-0.0477	TASKCLAR=-0.1157	TASKCLAR= 0.0502	-0.0682		-0.2107	0.835
NEGOTITN+	PERFORMC+	NEGOTITN+				
TASKCLAR= 0.0502	TASKCLAR=-0.1157	PERFORMC=-0.0477	-0.0657		-0.2027	0.842
SATISFTN+	SATISFTN+	PERFORMC+				
PERFORMC= 0.0695	TASKCLAR= 0.1568	TASKCLAR=-0.1157	-0.0879		-0.2823	0.781
SATISFTN+	PERFORMC+	SATISFTN+				
PERFORMC= 0.0695	TASKCLAR=-0.1157	TASKCLAR= 0.1568	-0.0463		-0.1520	0.881
SATISFTN+	PERFORMC+	SATISFTN+				
TASKCLAR= 0.1568	TASKCLAR=-0.1157	PERFORMC= 0.0695	0.0415		0.1303	0.898

PRACTICAL SIGNIFICANCE CRITERIA

S - 15  
 S - 30

A > OR = 0.26180  
 A > OR = 0.52360

DEGREES OF FREEDOM FOR (WITHIN) T = 1,        18

\* INDICATES INDUCTION

TABLE MVAB  
 (LEVEL = 1    CONDITION = 1)  
 MULTIPLE VARIABLE ANALYSIS (BETWEEN-CELL CORRELATIONS)

CORRELATIONS			DIFFERENCE (ONE - TWO)			
ONE	TWO	THREE	A	IND*	T	PROB
NEGOTITN+	NEGOTITN+	SATISFTN+				
SATISFTN=-0.1973	PERFORMC= 0.1413	PERFORMC=-0.0346	0.0568		0.1709	0.866
NEGOTITN+	SATISFTN+	NEGOTITN+				
SATISFTN=-0.1973	PERFORMC=-0.0346	PERFORMC= 0.1413	0.1640		0.5221	0.608
NEGOTITN+	SATISFTN+	NEGOTITN+				
PERFORMC= 0.1413	PERFORMC=-0.0346	SATISFTN=-0.1973	0.1072		0.3509	0.730
NEGOTITN+	NEGOTITN+	SATISFTN+				
SATISFTN=-0.1973	TASKCLAR=-0.0589	TASKCLAR= 0.0526	0.1396		0.4232	0.677
NEGOTITN+	SATISFTN+	NEGOTITN+				
SATISFTN=-0.1973	TASKCLAR= 0.0526	TASKCLAR=-0.0589	0.1460		0.4439	0.663
NEGOTITN+	SATISFTN+	NEGOTITN+				
TASKCLAR=-0.0589	TASKCLAR= 0.0526	SATISFTN=-0.1973	0.0064		0.0207	0.984

PRACTICAL SIGNIFICANCE CRITERIA

S - 15  
 S - 30

A > OR = 0.26180  
 A > OR = 0.52360

DEGREES OF FREEDOM FOR (BETWEEN) T = 1,    17

\* INDICATES INDUCTION

TABLE MVAB  
 (LEVEL = 1    CONDITION = 1)  
 MULTIPLE VARIABLE ANALYSIS (BETWEEN-CELL CORRELATIONS)

CORRELATIONS			DIFFERENCE (ONE - TWO)			
ONE	TWO	THREE	A	IND*	T	PROB
NEGOTITN+	NEGOTITN+	PERFORMC+				
PERFORMC= 0.1413	TASKCLAR=-0.0589	TASKCLAR=-0.9679	0.0829		1.4271	0.172
NEGOTITN+	PERFORMC+	NEGOTITN+				
PERFORMC= 0.1413	TASKCLAR=-0.9679	TASKCLAR=-0.0589	-1.1751	S-30	-10.4999	0.000
NEGOTITN+	PERFORMC+	NEGOTITN+				
TASKCLAR=-0.0589	TASKCLAR=-0.9679	PERFORMC= 0.1413	-1.2579	S-30	-11.9876	0.000
SATISFTN+	SATISFTN+	PERFORMC+				
PERFORMC=-0.0346	TASKCLAR= 0.0526	TASKCLAR=-0.9679	-0.0180		-0.2941	0.772
SATISFTN+	PERFORMC+	SATISFTN+				
PERFORMC=-0.0346	TASKCLAR=-0.9679	TASKCLAR= 0.0526	-1.2823	S-30	-11.1522	0.000
SATISFTN+	PERFORMC+	SATISFTN+				
TASKCLAR= 0.0526	TASKCLAR=-0.9679	PERFORMC=-0.0346	-1.2643	S-30	-10.8432	0.000

PRACTICAL SIGNIFICANCE CRITERIA

S - 15  
 S - 30

A > OR = 0.26180  
 A > OR = 0.52360

DEGREES OF FREEDOM FOR (BETWEEN) T = 1,    17

\* INDICATES INDUCTION