

**NURSE RECRUITMENT AND SELECTION: FACTORS
RELATED TO ACHIEVEMENT AND GRADUATION IN
BAHRAIN**

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VOLUME TWO

APPENDICES

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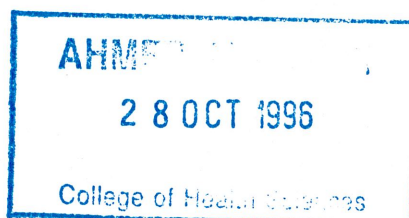


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APPENDIX A

(ATTACHMENT 1)

State of Bahrain
Ministry of Health
College of Health Sciences

Nursing Division

Associate Degree nursing Program

Interview Form

Year 19 - 19

Name of applicant : _____
Name of Interviewer: _____

Date of Interview: _____
Tel. No.: _____
G.P.A. : _____
Test Scores:
English: _____
Science: _____

Put a Tick () mark on the correct statement:

A. Are you a graduate of Tawjeehiya

1. Science
2. Literature
3. Commerce
4. H.S. Nursing stream
5. Other (specify) _____

B. Are you sponsored by:

5. BDF Hospital
6. Ministry of Health
7. Ministry of labour and social affairs
8. Self sponsored
9. Other institutions (specify) _____

Demographic Data

Family Composition

9. A. How many people live in your household? _____
- B. Who lives with you? _____

Household

10. Rent _____ Private _____ Government House _____
11. Do you live with your
Family _____
Relatives _____
12. Are there any family problems
Yes _____ No _____ Specify _____

Physical Well-being

14. Do you complain of any diseases at present?

Yes -----
No -----

Specify -----

15. Do you have any physical deformities

Yes -----
No -----

Specify -----

Intellectual Abilities

16. Did you have any difficulties with your school subjects?

Yes -----
No -----

Specify -----

Interest in Becoming a Nurse

Interviewer's Notes

17. Have you been to a hospital or health centre?

18. What does a nurse do?

19. What do you think would be the difference
between a good nurse and a poor nurse?

20. What abilities and interests do you have which
would make you a good nurse?

21. Can you describe a situation from your past
experience in which you demonstrated these
abilities or interests?

Do you have doubts about this
applicant's interest in becoming a nurse?

Yes ----- No -----

If yes, Why? -----

Willingness to co-operate with others

22. Can you describe something you have done or
achieved completely on your own?

23. Can you describe something you have done or
achieved which required you to work with other
people?

Which of these situations did you enjoy more, and why?

Do you think this applicant will be
willing to cooperate with other people?

Yes ----- No -----

If no, why not? -----

Ability to explain simple ideas to people

25. Interviewer says to applicants:

"Pretend I am a villager. Can you explain to me (either):

Why I should eat vegetables,

or

Why breast-feeding is better than bottle-feeding

or

Why I should wash my hands after defecating or
urinating".

Interviewer's Notes

After the explanation, do you think
the applicant will be able to explain
simple ideas to other people?

Yes _____ No _____

If no, why not? _____

Willingness to work with male/female patients

26. What do you think about working with:

Male patients :

Female patients:

Nationals :

Non-Nationals :

27. Imagine that you are assigned to two patients,
which one you will help first

A Male patient 40 years of age paralyzed who requires help to
bathe him.

or

Female 40 years of age ambulatory patient and requires help to
bathe her.

Do you think that the applicant will be
willing to work with Male and Female
patients?

Yes _____ No _____

If no, why not? _____

General Information

28. What do you think about working

With male colleagues

Working shift duty

Wearing a specific uniform

Rolling-up your sleeves during nursing procedures

Working in male wards

Do you think that the applicant will be
willing to fulfill the above rules of the
hospital/ profession?

Yes _____ No _____

If no, why not? _____

Overall Assessment

Accepted _____

Waiting list _____

Rejected _____

Comments: _____

Interviewers' signatures: _____

Adapted from: Bennett, M. & Wakeford R. Selecting Students for Training in Health Care WHO offset publication no. 74, Geneva:
World Health Organization, 1983.

(ATTACHMENT 2)

State of Bahrain
Ministry of Health
College of Health Sciences

Recommendation for Further Study in the Nursing Division

_____ has applied to enter the _____
— at the College of Health Sciences.

Please give us your opinion of the applicants ability to undertake these studies by completing the recommendation sheet.

The recommendation will be kept confidential and we would appreciate if you given us you own, frank opinion.

Recommendation Sheet

1. How long have you known the applicants? _____

2. In what capacity have you been associated with the applicant? _____

3. Motivation For Study

Exceptionally good _____ Good, no major weakness

Inadequate opportunity to observe

Weak in some respects, such as _____

Comments: _____
Maturity

Mature _____ Adequately mature in most reactions _____ Inadequate opportunity to observe

Immature in some respects, such as _____

Comments: _____

5. Work Habits

Works at full capacity _____ Works well, has reserve capacity _____ Satisfactory, but can do better

Iclined to do the minimum expected

Inadequate opportunity to observe

Comments: _____

6. Working Relationships

- _____
- _____ Maintains good professional relationships and gets on exceptionally well with others
- _____
- _____ Maintains satisfactory professional relationship and has little or no difficulty in working with others
- _____
- _____ Inadequate opportunity to observe
- _____
- _____ Somewhat unprofessional in her/his work relationships and has difficulty in working with others

Comments: _____

7. Initiative

- _____
- _____ Exceptionally good at taking appropriate initiatives or the lead
- _____
- _____ Good, no major weaknesses
- _____
- _____ Rarely takes initiatives or the lead
- _____
- _____ Inadequate opportunity to observe

Comments: _____

8. How many days of absence/ sickness has the applicant had in the previous 12 months?

Sickness _____ Absence _____

Comments: _____

9. Do you know if any obvious health, family or social problems which may hinder the applicant during a long course of intensive and demanding study?

Yes _____ No _____

If yes, please clarify if possible _____

10. Please give us your evaluation and personal reaction to the applicant. We are particularly interested in your assessment of the applicant's potential for academic work and leadership in nursing as indicated by qualities such as initiative, maturity, judgement, integrity, ability to get on with others and interest in nursing.

11. Please give us any other information or comments which may be relevant to this candidate's application for study.

My recommendation is:

_____ Very strong Strong _____ Moderate _____ With reservation _____

_____ Do not recommend

Your Name (Print): _____ Signed: _____ Position: _____

Institution: _____

Date: _____

(ATTACHMENT 3)

State of Bahrain
Ministry of Health
College of Health Sciences

Nursing Division

Who Collaborating Center for Nursing Development

Selection Interview Questionnaire

For Post Basic Programs/ Bsc.

Name: _____

Age: _____

Married: No Yes

Children: _____

Ages: _____

Educational Qualifications:-

School graduated from: _____

Year: _____

Awards, Prizes, honors awarded? _____

Grade point average: _____ TOFEL Score: _____

Other: _____

Professional Experiences:-

(Work experiences: Include type of nursing done; number of months, years, etc. in position, agency, job title, responsibilities etc..).

Future Goals in Nursing:-

1. Immediate goal (1-2 years)
2. Long term goal (5-10 years)

Professional Activities:-

1. Continuing Education:

a) Attendance at workshops, seminars, inservices classes etc.

b) Self directed study using professional journals, periodicals, textbooks etc..

2. Participation in professional nursing committees (Hospital/College); Health related associations or social organizations; professional volunteer work etc..

3. Hobbies, interests, activities:

Interests and Motivation in Post Basic Program/BSc:-

1. Applicant's understanding of the role -----;

2. Reasons for applying to this program:

Factors Keeping Applicant From Successfully Completing The Program:-

1. Health any major illness, deformities, etc. that would prevent applicant from completing the program.

Number of sick days taken last year?

2. Any other anticipated difficulties, responsibilities or obligations that would prevent applicant from completing the program?

3. Family's/husband's response to becoming a -----, doing shift work etc..?

Applicant's Understanding and Acceptance of Program Demands and It's requirements:-

Independent study

Physical role- increased stress

Expanded role- increased stress

Length of program

On-job-training

6 th month probationary period (Nurse-midwifery Program)

Interview Outcome:-

Recommendation for acceptance into Post Basic programs//BSc:

Strong recommendation

Recommended with reservation

Do not recommend

Interviewer's comments:

Interviewer's signature: -----

Date: -----

(ATTACHMENT 4)

State of Bahrain
Ministry of Health
College of Health Sciences

Nursing Division

Who Collaborating Center for Nursing Development

Criteria for Evaluation of Candidates for Admission

Name of Applicant: _____

Instructions: The followign criteria are to be used for the evaluation of applicants to the Post Basic/ Bsc.
Program / Please evaluate each criteria using the scale accompanying the criteria and record
the appropriate number in the score column.

<u>A. Academic accomplishments</u>	<u>Score</u>	<u>Comments</u>
1. Grade Point Average		
(10) 86-100	_____	
(5) 70-85	_____	
2. TOFEL Score		
(10) above 450	_____	
(5) 430-450	_____	
(3) 400-430	_____	
 <u>B. Professional Activities</u>		
1. Number of years of professional nursing experience		
(10) More than 3 years	_____	
(5) One to 3 years	_____	
2. Clinical experience		
(10) intensive care unit		
(10) Coronary care unit		
(5) Operating theater		
(5) Midwifery/Psychiatry/Community		
(3) Surgical ward		
(3) Medical ward		
(3) Other	_____	
3. Involvement in Committees, organizations, Associations		
(10) Significant Participation		
(0) No participation		
4. Continuing Education - Number of hours of hours attended in past year		
(10) Some participation		
(3) No participation		
5. Reads professional journals to keep informed		
(10) Used library and reads own texts		
(3) Reads own texts		
(0) None of the above	_____	

<u>C. References</u>	<u>Score</u>	<u>Comments</u>
----------------------	--------------	-----------------

- | | | |
|------|------------------------------|-------|
| (10) | Very strongly recommended | |
| (8) | Strongly recommended | |
| (4) | Moderately recommended | |
| (2) | Recommended with reservation | |
| (0) | Do not recommend | ----- |

D. Reasons for Wanting to Become

- | | | |
|------|----------------------|-------|
| (10) | Acceptable reasons | |
| (0) | Unacceptable reasons | ----- |

E. Interview

- | | | |
|------|---------------------------|-------|
| (10) | Strong candidate | |
| (6) | Adequate | |
| (2) | Adquate with reservations | |
| (0) | Not recommended | ----- |

Total	-----
-------	-------

Signatures of Selection Panel:-

- | | | |
|----|-------------|-----------------|
| 1. | Name: ----- | Position: ----- |
| 2. | Name: ----- | Position: ----- |
| 3. | Name: ----- | Position: ----- |
| 4. | Name: ----- | Position: ----- |

(ATTACHMENT 5)

name	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	v21	v22	v23	v24	v25	v26	v27
1	5	5	4	3	5	5	5	5	5	3	4	5	5	5	5	3	3	5	5	5	5	5	5	5	5	5	5
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19	5	5	5	4	4	4	4	4	5	4	5	5	4	4	5	4	4	4	4	4	4	4	4	4	5	4	5
20	4	4	4	4	4	4	3	4	4	4	4	3	4	4	4	4	4	4	4	4	3	3	3	3	3	4	4

	v82	v83	v84	v85	v86	v87	v88	v89	v90	v91	v92	v93	v94	v95	v96	v97	v98	v99	v100	v101	v102	v103	v104	v105	p1	p2	
1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	10	3
2	4	5	5	5	5	5	5	4	5	5	5	4	4	4	4	5	5	4	4	4	5	5	5	5	5	6	6
3	3	4	5	4	5	4	5	3	3	4	3	3	5	5	3	5	3	3	4	4	4	5	5	5	5	6	6
4	4	5	4	4	5	3	4	3	5	4	5	5	5	5	5	5	3	3	4	4	5	3	5	5	5	11	.
5	4	4	4	5	5	4	4	5	4	4	5	4	5	4	5	5	3	3	4	4	5	5	5	5	5	16	.
6	4	5	5	5	3	5	3	3	5	5	5	4	5	4	4	3	4	5	5	5	5	4	5	4	4	15	.
7	4	4	4	4	3	4	4	4	4	4	3	3	4	5	5	5	4	4	5	3	5	5	5	5	5	3	6
8	4	5	5	5	5	5	5	5	5	3	3	3	4	4	4	5	3	5	5	3	4	5	5	5	5	10	.
9	4	5	5	5	3	5	3	3	5	5	5	4	5	5	3	4	5	5	5	5	5	5	5	5	5	.	.
10	4	3	5	4	5	5	4	3	5	5	3	3	4	5	5	5	4	4	5	3	5	5	5	5	5	5	5
11	5	5	4	4	4	4	4	4	4	4	4	4	4	5	5	4	4	5	5	4	5	5	5	5	5	8	6
12	5	5	5	5	5	5	4	5	4	5	5	5	5	5	3	5	5	4	4	4	5	5	5	4	4	6	3
13	5	4	4	4	4	5	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	13	4
14	3	5	5	4	3	5	3	5	3	5	5	4	4	4	4	4	4	4	4	4	4	4	5	5	5	3	3
15	4	5	5	5	4	5	5	5	5	5	3	4	4	3	5	4	3	4	4	4	3	5	5	5	5	6	5
16	4	4	4	4	5	5	4	4	5	5	3	5	4	5	4	5	4	5	4	4	5	5	4	4	4	9	4
17	4	5	5	5	5	5	4	4	4	5	3	4	5	5	4	5	4	3	5	4	5	5	5	3	7	2	
18	3	5	4	5	3	5	3	5	5	5	5	5	5	4	4	5	5	3	5	4	5	5	5	5	5	10	6
19	4	5	5	5	5	5	4	4	5	4	5	5	5	4	3	4	3	4	3	5	3	5	5	5	5	6	6
20	3	4	3	4	3	4	3	3	3	4	4	4	4	3	3	3	4	4	4	4	4	4	4	3	3	4	4

	p3	p4	p5	p6	p7	p8	p9	fac1_1	fac2_1	fac3_1	fac4_1	totvarb
1	7	10	10	1	3	1	3	2.25397	.58598	-.24502	-.38306	515.00
2	0	10	10	6	6	1	4	2.63489	.87205	-.12691	-1.58904	485.00
3	8	10	10	1	1	2	2	1.31127	.89608	.36854	.10056	446.00
4	3	10	10		2	2	1	2.34404	.71293	.54663	-.63170	476.00
5	8	10	10	3	1	1	1	1.51169	2.27187	-1.19311	.76456	480.00
6	3	10	10	7	4	1	2	-.02704	-.24311	-1.07046	.19432	491.00
7	3	10	10	3	1	1	1	-.89474	-1.28464	.01190	-.66403	427.00
8	3					1	2	1.98919	.30585	-.86098	-2.20290	484.00
9	8	10	10	2	4	1	4	-.51196	-.54388	-1.06791	.41901	485.00
10	3	10	10	3	2	1	2	.86918	.86637	-1.56171	-.80980	473.00
11	0	10	10	3	3	2	3	1.25337	-.26257	1.19235	-.74930	440.00
12	1	10	10	3	4	2	4	-.20489	-.29072	-1.59579	-.71432	481.00
13	3	10	10	3	4	1	2	.29765	-.13032	.56676	-.24086	429.00
14	9	10	10	4	1	1	2	.40213	.86543	.59207	2.36454	465.00
15	10	10	10	3	2	1	2	1.58342	1.33283	-1.32690	-.80762	483.00
16	7	10	10	1	1	2	2	-.45519	.12039	-.06169	.16473	420.00
17	3	10	10	5	3	1	4	1.17778	1.45407	-1.64605	-.57694	477.00
18	0	1	1	5	7	1	4	-.10113	.69400	-2.56030	-1.74929	450.00
19	3	10	10	2	2	1	2	.44150	1.13640	-1.23611	-.69271	441.00
20	3	10	10	8	4	1	3	-1.58090	.82615	-.88424	.69574	386.00

	name	number	stno	lchem	lphys	lbiol	lmath	leng	larab	l1st	lstream	school	estnuc	eread	elisten	ewriting
1		1	92273					68	57	1	3	19				
2		3	92384	62	41	70	42	68	48	1	2	9	40	70	45	22.00
3		4	92033	76	65	90	66	73	82	1	2	5	50	60	55	37.00
4		6	92115	66	50	81	48	62	74	1	2	9	40	60	50	20.00
5		8	92086	63	60	79	50	61	79	1	2	17	60	70	50	17.00
6		10	92069	74	41	75	46	80	71	1	2	9	70	90	75	45.00
7		13	92028	53	47	79	56	78	71	1	2	1	60	70	70	65.00
8		18	92035	61	46	76	56	77	76	1	2	12	80	80	75	57.00
9		19	92224	53	53	79	50	61	71	1	2	6	40	50	70	25.00
10		21	92346	56	50	66	51	80	72	1	2	7	99	80	70	35.00
11		22	92398	79	74	79	85	40	63	1	2	7				
12		23	92019	70	62	87	43	47	78	1	2	5	50	40	40	35.00
13		27	92377	75	43	66	40	63	70	1	2	5	40	30	60	30.00
14		28	92460	62	54	83	41	54	67	1	2	5	20	70	55	25.00
15		29	92457	77	79	96	79	84	93	1	2	7	40	80	70	25.00
16		30	92182	72	65	92	68	64	84	1	2	2	10	70	55	25.00
17		32	92283	95	89	98	90	90	93	1	2	7	90	90	95	75.00
18		33	92054	77	61	86	56	76	67	1	1	1				27.00
19		34	92204	60	52	60	60	79	66	1	2	6	80	90	65	30.00
20		36	92112	72	72	92	71	72	72	1	2	13	70	80	45	32.00

	smath	spnysics	sbiolog	schem	tavg	scnter	eenfran	gpa11	gpa12	gpa13	gpa21	gpa22	gpa23	gpa31	gpa32	gpa33	gpa41
1	.	.	.	.	83	77	47	1.0	1.3	1.0	3.3	.	.	.	.	.	.
2	50	50	90	80	61	67	40	2.2	2.1	1.4	3.5	.	.	.	.	.	.
3	80	60	70	60	79	67	48	3.2	2.6	2.8	4.0	.	.	.	.	.	.
4	80	60	90	80	67	77	38	1.8	1.6	1.4	3.3	.	.	.	.	.	.
5	90	60	80	70	70	75	43	1.8	1.5	.0	3.3	.	.	.	.	.	.
6	70	40	80	70	67	65	65	1.4	1.3	1.2	2.8	.	.	.	.	.	.
7	99	70	99	90	68	90	66	4.0	3.0	3.4	4.0	.	.	.	.	.	.
8	60	70	80	50	68	65	70	3.0	2.8	2.4	3.3	.	.	.	.	.	.
9	70	70	90	70	66	75	42	2.0	1.2	1.8	3.5	.	.	.	.	.	.
10	80	60	90	90	64	80	64	2.8	1.2	1.8	2.7	.	.	.	.	.	.
11	.	.	.	.	74	60	35	2.8	1.8	1.5	3.1	.	.	.	.	.	.
12	40	70	99	70	71	70	40	1.4	1.1	1.2	2.5	.	.	.	.	.	.
13	50	60	50	80	64	60	36	2.0	.8	1.4	2.7	.	.	.	.	.	.
14	60	60	70	40	66	57	39	2.2	2.6	2.8	3.6	.	.	.	.	.	.
15	90	99	90	70	86	87	48	3.4	3.5	3.4	4.0	.	.	.	.	.	.
16	80	40	90	70	78	70	37	3.2	2.0	2.4	3.5	.	.	.	.	.	.
17	90	90	90	90	94	90	85	4.0	3.8	4.0	4.0	.	.	.	.	.	.
18	90	70	99	70	67	82	59	3.0	2.2	1.2	3.2	.	.	.	.	.	.
19	80	20	80	80	65	65	59	3.4	2.9	2.6	3.8	.	.	.	.	.	.
20	60	50	99	70	77	70	52	3.0	3.0	2.8	3.3	.	.	.	.	.	.

	cgpa	yr1gpa	yr2gpa	yr3gpa	gradnot1	year	wrk	gender	sponsor	ch1	ch2	ch3	ch4	eng991	eng1111	gsm102	gss11	gss921
1	.	.	.	.	5	92	.	2	1	5	.	.	.	65	65	55	55	65
2	.	.	.	.	5	92	.	1	1	5	9	3	.	75	65	75	75	65
3	.	.	.	.	5	92	.	1	1	9	3	5	.	85	65	95	85	95
4	.	.	.	.	5	92	.	1	1	5	3	9	.	75	65	75	55	75
5	.	.	.	.	5	92	.	2	1	3	9	5	13	75	65	65	65	75
6	.	.	.	.	5	92	.	1	1	5	9	3	.	85	75	65	55	55
7	.	.	.	.	5	92	.	1	1	5	3	9	.	95	85	75	95	95
8	.	.	.	.	5	92	.	1	1	5	3	9	.	95	85	85	85	85
9	.	.	.	.	5	92	.	1	1	5	9	3	.	75	65	65	65	75
10	.	.	.	.	5	92	.	1	2	9	3	5	.	85	75	55	85	85
11	.	.	.	.	5	92	.	1	1	5	3	9	.	65	55	75	85	85
12	.	.	.	.	5	92	.	1	1	9	3	5	.	65	55	65	65	65
13	.	.	.	.	5	92	.	1	1	5	9	3	.	75	65	65	75	75
14	.	.	.	.	5	92	.	1	2	5	.	.	.	75	75	75	65	85
15	.	.	.	.	5	92	.	1	2	5	.	.	.	85	85	95	85	85
16	.	.	.	.	5	92	.	1	.	9	3	5	.	85	65	75	85	85
17	.	.	.	.	5	92	.	1	1	5	3	9	.	85	85	95	95	95
18	.	.	.	.	5	92	.	1	2	5	3	9	.	85	85	65	75	85
19	.	.	.	.	5	92	.	1	2	5	9	3	.	95	85	95	85	85
20	.	.	.	.	5	92	.	1	1	5	9	3	.	85	85	85	85	85

	gs931	H971	H1111	H1121	H1131	H1211	totfirst
1	65	65	65	75	65	75	715.00
2	75	95	85	75	75	85	845.00
3	85	85	85	75	95	85	935.00
4	75	65	75	75	75	75	785.00
5	65	85	65	75	55	75	765.00
6	65	85	65	65	55	65	735.00
7	85	95	95	95	95	85	995.00
8	75	85	85	85	85	85	935.00
9	75	75	65	75	85	65	785.00
10	75	85	65	65	55	65	795.00
11	75	95	75	75	85	85	855.00
12	65	65	75	75	75	65	735.00
13	65	75	55	65	55	65	735.00
14	75	75	85	85	95	85	875.00
15	85	95	95	85	95	95	985.00
16	75	95	85	85	85	75	895.00
17	95	95	95	95	95	95	1025.00
18	85	85	85	75	55	75	855.00
19	95	95	75	75	75	85	945.00
20	85	85	85	85	95	85	945.00

الإستبيان

(ATTACHMENT 6)

أوافق بشدة	أوافق	متحايد	لا أوافق	لا أوافق بشدة	لا ينطبق
٥	٤	٣	٢	١	٨
١	()	لعل أهم الأسباب التي دلفتك لدراسة التبريض هو الإعجاب بزي التبريض			
٢	()	لعل أهم الأسباب التي دلفتك لدراسة التبريض هو وجود مخصص شهري			
٣	()	لعل أهم الأسباب التي دلفتك لدراسة التبريض هو ضمان وجود الوظائف بعد التخرج			
٤	()	لعل أهم الأسباب التي دلفتك لدراسة التبريض هو إعجابك بمسئوليات المرحض			
٥	()	لعل أهم الأسباب التي دلفتك لدراسة التبريض هو الرغبة في خدمة الوطن			
٦	()	لعل أهم الأسباب التي دلفتك لدراسة التبريض هو كونها مهنة إنسانية حث عليها الدين			
٧	()	لعل أهم الأسباب التي دلفتك لدراسة التبريض هو تولي المجال للدراسات العليا			
٨	()	لعل أهم الأسباب التي دلفتك لدراسة التبريض هو كون الدراسة باللغة الإنجليزية			
٩	()	عندما يطلب منك أي عمل فإنه يجب عليك إرضاء جميعك			
١٠	()	عندما يطلب منك أي عمل فإنه يجب عليك ضمان رضى الآخرين			
١١	()	عليك تشجيع كل معاركك على الإلتحاق ببرنامح التبريض العام			
١٢	()	إن مظهرك الخارجي مهم جداً بالنسبة لك كممرض - ممرضة			
١٣	()	ينبغي أن يسمعك أن يلتحق اموتك و امواتك بمقل التبريض			
١٤	()	على الماركة وجوانك أن يشجعوا أبنائهم على الإلتحاق بالتبريض			
١٥	()	سيشجع الأربك وجوانك أبنائهم على الإلتحاق بالتبريض إذا تحسنت ظروف مهنة التبريض			
١٦	()	يجب عليك أن لا تودد في الإجابة على الأسئلة في الفصل حتى وإن لم تكن تعرف الإجابة			
١٧	()	يجب عليك أن تحاول الإجابة على الأسئلة في الفصل حتى وإن لم تكن متأكد من الإجابة			
١٨	()	يجب عليك أن تناقش المدرس في كل صغيرة وكبيرة أثناء المحاضرة لكي تفهم الدرس			
١٩	()	إن يثقك في الفصل يجب أن يكون دليلاً أكيداً على أنك طالب ذكي			
٢٠	()	إن هذوتك في الفصل يجب أن يكون دليلاً أكيداً على أنك طالب ذكي			
٢١	()	يجب أن يتصرف المدرس على الطالب الذكي في الفصل من خلال نظرة الطالب البقلة			
٢٢	()	يجب أن يتصرف المدرس على الطالب الذكي في الفصل عندما يعطي الطالب الإجابات الصحيحة للأسئلة			
٢٣	()	يجب أن يتصرف المدرس على الطالب الذكي في الفصل عندما تكون أسئلة الطالب موجهة في مادة الدرس			
٢٤	()	يجب عليك أن لا تكون - عندما تحصل على درجة لم تتولها في أحد الامتحانات طالما أن الدرجة تعدت درجة النجاح			
٢٥	()	يجب عليك أن لا تكون - عندما تحصل على درجة لم تتولها في أحد الامتحانات طالما أن هناك امتحان إعادة			
٢٦	()	يجب عليك مذاكرة الدروس يومياً وبشكل منتظم			
٢٧	()	يجب عليك تحضير الدروس المتعددة التي لم يشرحها المدرس بعد			
٢٨	()	يجب عليك القيام بقرائات خارجية حول موضوع الدرس			
٢٩	()	عندما تجلس للمذاكرة فلا بد أن يلقب عليك الناس			
٣٠	()	إن من أهم الغزاي التي يجب أن تتسنع بها هي القدرة على تذكر الأحياء			
٣١	()	يجب عليك أن تقوم بكتابة تلخيص موجز في طرف الكتاب لمساعدك على المذاكرة			
٣٢	()	يجب عليك أن تقوم بتلخيص الأجزاء الهامة من الدرس لمساعدك على المذاكرة			
٣٣	()	لعل من أهم الأمور الإيجابية التي يجب أن تتولر ليك كطالب قمرريض هو قدرتك على القيام بمهمة يتطلب أداؤها استخدام المهارة اليدوية			
٣٤	()	لعل من أهم الأمور الإيجابية التي يجب أن تتولر ليك كطالب قمرريض هو قدرتك على القيام بمهمة يتطلب أداؤها الدقة والسرعة			
٣٥	()	لعل من أهم الأمور الإيجابية التي يجب أن تتولر ليك كطالب قمرريض هو قدرتك على تعلم إحدى المهارات اليدوية إذا رأيت أحدهم يقوم بها مرة واحدة			
٣٦	()	لعل من أهم الأمور الإيجابية التي يجب أن تتولر ليك كطالب قمرريض هو قدرتك على إتقان أي مهارة يدوية تعلمتها عندما تتدرب عليها مرة واحدة			
٣٧	()	لعل من أهم الأمور الإيجابية التي يجب أن تتولر ليك كطالب قمرريض هو شعورك بالثقة عند قيامك بأي عمل يدوي حتى وإن لم تتدرب عليه جيداً			
٣٨	()	لعل من أهم الأمور الإيجابية التي يجب أن تتولر ليك كطالب قمرريض هو شعورك بالثقة عند أدائك للامتحانات النظرية حتى وإن لم تذكر جيداً			
٣٩	()	لعل من أهم الأمور الإيجابية التي يجب أن تتولر ليك كطالب قمرريض هو شعورك بالثقة عند أدائك للامتحانات النظرية عندما تذكر جيداً			
٤٠	()	لعل من أهم الأمور الإيجابية التي يجب أن تتولر ليك كطالب قمرريض هو أنك تهمل أقصى جهدك دون اللجوء لطلب المساعدة لإنجاز عمل يدوي لم تتدرب عليه			
٤١	()	بعد الزواج عليك أن توكي مهنة التبريض إذا طلب منك زوجك ذلك			
٤٢	()	يجب أن لا يؤثر الزواج في قرارك بمهنة العمل أو إكمال الدراسة في حفل التبريض			
٤٣	()	يجب أن تحصل في المادة على الدرجة التي تولتها في الإمتحان			
٤٤	()	يجب أن تستطيع النجاح في القرارات عندما تذكر			
٤٥	()	يجب أن تملك القدرة على التركيز أثناء الدراسة			

- ٤٦ () هب أن تذكر معظم النقاط الهامة التي قرأتها في الدرس
- ٤٧ () أثناء المذاكرة ليس هناك حرج من أن تفكر في لعبها خارجية عن الدرس
- ٤٨ () هب عليك أن تكون من النوع الجاد الذي يتمتع بالثبات والقرار
- ٤٩ () هب عليك أن تكون من النوع الجاد والشوش في نفس الوقت
- ٥٠ () يمكن أن تأخر قليلاً في الوصول إلى الفصل طالما حرصت على نقل كل ما كنت
- ٥١ () عليك الوصول إلى الفصل في الوقت المحدد أو قبل وصول الدرس
- ٥٢ () أنت لقي في اللغة الإنجليزية تحدياً
- ٥٣ () أنت لقي في اللغة الإنجليزية تحدياً
- ٥٤ () إنك تجد صعوبة في مذاكرة الدروس باللغة الإنجليزية
- ٥٥ () هب عليك أن تكون من النوع النشط جداً والسريع المديهة
- ٥٦ () هب عليك أن تكون من النوع السريع الأداء وكفاءة عالية
- ٥٧ () هب عليك أن تكون من النوع الذي يملك القدرة على التصرف بسرعة في المواقف الحرجة
- ٥٨ () يكفي أن يتمتع المرء - المرحلة بصفات المثل والروح الجميلة
- ٥٩ () هب عليك أن تبادر بالإعذار بأي خطأ ارتكبه
- ٦٠ () هب عليك أن تعلم من أخطائك لتجنبها مستقبلاً
- ٦١ () يتولد لديك شعور بالاشتراك عند رؤيتك منظرًا مألوفًا
- ٦٢ () إنك تحب نفسك من النوع العاطفي لأنك تشعر بالحزن العميق لأم مرضى الأمراض الخطيرة والصعبة
- ٦٣ () إنك تحب نفسك من النوع العاطفي لأنك تواسي مرضى الأمراض الخطيرة والصعبة وتحاول التخفيف عنهم
- ٦٤ () إنك تحب نفسك من النوع العاطفي لأنك تتألم لمرضى الأمراض الخطيرة والصعبة وإن كنت تتعاطف نفسك ولا تبدي أي تأثير أمامهم
- ٦٥ () إنك تحب نفسك من النوع الهادئ لأنك تتعامل مع الموقف بحكمة إذا ما تعرضت لسوء معاملة
- ٦٦ () إنك تحب نفسك من النوع العصبي لأنك لا تتعاطف مع أخطائك إذا ما تعرضت لسوء معاملة
- ٦٧ () إذا لزم الأمر القوي من حرك أثناء المذاكرة فإنه هب عليك أن تشعر باليقين وتؤكد الدراسة
- ٦٨ () إذا لزم الأمر القوي من حرك أثناء المذاكرة فليكن أن تسمح لنفسك بإجازة وتعاود الدراسة عندما يتحقق الهدوء
- ٦٩ () إن العمل في معنى ألا تعلمه أبداً
- ٧٠ () في المدرسة كان عليك أن تذكر كثيراً
- ٧١ () ترى أن الحياة التي لا يعمل فيها الإنسان مطلقاً حياة مثالية
- ٧٢ () إن تلقى قدرًا من الوقت للإستعداد لشئ هام بعد أمراً لا قيمة له في الواقع
- ٧٣ () إن إلتزامك أمام نفسك عند المذاكرة هب أن يكون مرتفعاً جداً
- ٧٤ () عندما يشرح الأستاذ الدرس هب عليك أن تعقد العزم على بذل قصارى جهدك
- ٧٥ () عليك أن تذكر أكثر بكثير مما قررت أن تذكر
- ٧٦ () إذا لم تصل إلى هدفك ولم تزد مسؤوليتك تماماً، عندئذ عليك التخلي عن هدفك
- ٧٧ () إن عدم إهتمامك للواجب الدراسي هو هام جداً
- ٧٨ () عندما تبدأ أداء الواجب الدراسي عليك أن تعقد العزم على أن تبذل مجهوداً قليلاً
- ٧٩ () عليك أن تضع لنفسك معايير مرتفعة جداً
- ٨٠ () إذا دعتك أثناء أداء الواجب الدراسي إلى مشاهدة التلفزيون أو سماع الراديو فإنك بعد ذلك هب أن تعود مباشرة إلى المذاكرة
- ٨١ () تحب عادة أداء الأعمال التي تتطلب مسئولية كبيرة
- ٨٢ () هب عليك أن تذكر بدرجة متوسطة
- ٨٣ () إن وصولك إلى مركز مرموق في المجتمع هو هام
- ٨٤ () عند قيامك بعمل في صعب فإنه هب عليك التخلي عنه سريعاً
- ٨٥ () تخطط للمستقبل في معظم الأحيان
- ٨٦ () ترى بأن الطلبة الذين يذاكرون بشدة كبيرة يمتازون بأنهم مهذبين جداً
- ٨٧ () تعجب كثيراً بالأشخاص الذين يعلقون مركزاً مرموقاً في الحياة
- ٨٨ () عندما ترغب في عمل شئ تسلي به فإنه لا يكون لديك وقت لذلك عادة
- ٨٩ () تكون عادة مشغولاً جداً
- ٩٠ () يمكن أن تعمل في شئ ما بدون تعب لمدة قصيرة جداً
- ٩١ () إن هلاقتك الجدية بالأساتذة في المدرسة هو هامة
- ٩٢ () يتبع الأولاد آباءهم في إدارة الأعمال لأنهم يريدون توسيع و إمتداد الأعمال
- ٩٣ () بالنسبة للدراسة بالمدرسة تكون عادة في غاية الحماس
- ٩٤ () التنظيم في حجب أن تمارسه كثيراً
- ٩٥ () عندما تبدأ شيئاً فإنه لا يهم أن تنهيه بنجاح على الإطلاق
- ٩٦ () بالنسبة للدراسة تكون متعاطفاً كثيراً جداً
- ٩٧ () لن يعجب عليك الحصول على معدل يصل ٣٠٠٠ هاط (معدل ٨٥٪) في الكلية
- ٩٨ () تشعر بالإحباط بسهولة عندما تفشل في عمل أمر ما
- ٩٩ () تلجأ إلى من يساعدك و يستمع إليك إذا واجهتك مشاكل تتعلق بالدراسة
- ١٠٠ () إذا بدأت أمراً ما فليكن أن تنهيه

- ١٠١ () إن قدراتك الأكاديمية تعادل قدرات خالصة الطلبة في نفس المرحلة الدراسية
 ١٠٢ () يسهل على الناس تغير رأيك بخصوص موضوع معين حتى وإن عقدت المزم عليه
 ١٠٣ () يشتر احدلائك والاربك بأنك يجب الا تكمل تعليمك بعد المرحلة الثانوية
 ١٠٤ () يشجعك المراد أسرته على إكمال تعليمك بعد المرحلة الثانوية
 ١٠٥ () إن درجاتك في الثانوية العامة لا تعكس في الحقيقة قدراتك الأكاديمية

معلومات شخصية:

الاسم لثانياً: _____ وللم الطالب/ الطالبة: _____

تاريخ الالتحاق بالكلية: _____

عدد المراد الأسرة المهاجرة (بما فيها الأب والأم): _____

دخول الأسرة بالدينار: ١- (أقل من ١٠٠) ٢- (١٠٠-١٩٠) ٣- (٢٩٠-٢٩٠) ٤- (٣٩٠-٣٩٠) ٥- (٤٩٠-٤٩٠) ٦- (أكثر من ٥٠٠)

مهنة الوالد - ولي الأمر _____

مهنة الأم قبل الزواج: _____ مهنة الأم بعد الزواج: _____

درجة تعليم الوالد - ولي الأمر: (١) أمي (٢) كتاب (٣) ابتدائي (٤) إعدادي (٥) ثانوي (٦) دبلوم (٧) جامعي (٨) أخرى

هل يوجد لديك مكان مخصص للدراسة في المنزل: نعم _____ لا _____

أعلى مؤهل علمي تتوقع الوصول إليه: (١) دبلوم - الكلية (٢) بكالوريوس (٣) ماجستير (٤) دكتوراه

Nurse Selection Questionnaire (NCQ)

Dear students and graduates,

I would like to thank all of you who accepted to take part in completing this questionnaire. The purpose of this questionnaire is to identify predictors of success for the Associate Degree nursing students at the College of Health Sciences in order to improve the selection procedures.

In this respect you are kindly requested to answer all the 105 question provided in this questionnaire. There is no right or wrong answer and your answer should be the immediate response which is appropriate to your response for each question. Use the box provided opposite to each question to indicate your answer. Your response to the questionnaire will remain confidential and will be used strictly for the purpose of this research.

Completion of all items on this questionnaire is essential in order to obtain meaningful analysis results.

Following are some reminders:-

- 1) leave no blank spaces for any of the 105 item
- 2) Indicate your name and your College identification no. (ID)
- 3) Complete the biography section at the end of the questionnaire

Following is an example for completing the questionnaire:-

() I joined the College by my own will.

Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree	Not Applicable
5	4	3	2	1	8

If your answer is that you strongly agree with this statement, then indicate the number 5 in the () opposite that item. If your answer is strongly disagree then you should indicate the number 1 in the () and so on.

Please complete the questionnaire as you have been instructed in the directions sheet.

- | | | | | | |
|----------------|-------|-------------------------------|----------|----------------------|----------------|
| Strongly Agree | Agree | Neither Agree Nor
Disagree | Disagree | Strongly
Disagree | Not Applicable |
| 5 | 4 | 3 | 2 | 1 | 8 |
-
- () 1 You joined nursing because you like the nursing uniform.
 - () 2 you joined nursing because of the monthly stipend.
 - () 3 you joined nursing because of secured jobs upon graduation.
 - () 4 you joined nursing because you like the responsibilities of a nurse.
 - () 5 you joined nursing because of you like to serve my country.
 - () 6 I joined nursing because it is a humanistic job.
 - () 7 I joined nursing because of the opportunities for higher education.
 - () 8 I joined nursing because English is the language of instruction.
 - () 9 If asked to do a job I do it in such a way that will clear my conscious.
 - () 10 If asked to do a job I do it in such a way that will please others.
 - () 11 I will encourage my friends to join nursing.
 - () 12 Outside appearance is very important for you.
 - () 13 You should be pleased to see brothers and sisters join nursing.
 - () 14 Your neighbours and friends should encourage their children to join nursing.
 - () 15 Your neighbours and friends will encourage their children to join nursing if nursing conditions improve.
 - () 16 You should hesitate to answer the teacher's questions whenever you do not know the answer.
 - () 17 You should try to answer the teacher's questions even if you are not sure of the answer.
 - () 18 You should discuss every point with the teacher in class to understand the lesson.
 - () 19 The alert look on the student's face indicate intelligence.
 - () 20 Calmness in class is an indication of intelligence.
 - () 21 Teachers must be able to recognise intelligent students from alert look on their face.

- () 22 Teachers must be able to identify intelligent students when they give correct answers.
- () 23 Teachers must be able to identify intelligent students when they ask intelligent questions related to the subject.
- () 24 It is OK not to get the expected grade on an examination as long as it is a passing grade.
- () 25 It is OK not to get the expected grade on an examination as long as there is a re-test.
- () 26 You should study daily.
- () 27 You should prepare for your new lessons.
- () 28 You should do outside readings about the lesson material.
- () 29 When you sit to study you feel sleepy.
- () 30 You have a very good memory.
- () 31 You should write on the side of the book to help you in studying.
- () 32 You should summarise the important points in the lesson.
- () 33 One of the important points that you should possess as a nursing student is your ability to do jobs that require skill.
- () 34 One of the important points that you should possess as a nursing student is your ability to do jobs that require speed and accuracy.
- () 35 One of the important points that you should possess as a nursing student is your ability to learn a skill if you see it done once.
- () 36 One of the important points that you should possess as a nursing student is your ability to perform a skill if you practice it once.
- () 37 One of the important points that you should possess as a nursing student is having confidence to perform a skill without practising well.
- () 38 One of the important points that you should possess as a nursing student is your confidence in sitting for theoretical examinations without studying.
- () 39 One of the important points that you should possess as a nursing student is your confidence in sitting for theoretical examinations when you study.
- () 40 One of the important points that you should possess as a nursing student is that you exert maximum effort in performing a skill that you did not practice without asking for help.
- () 41 Upon marriage you should leave nursing if your husband asks you to do so.

- () 42 Marriage should not affect your decision to work or continue your study in the nursing field.
- () 43 Normally you should receive the grade you expect in an examination.
- () 44 You should be able to pass in an examination if you study.
- () 45 You should have the ability to concentrate while studying.
- () 46 You should be able to remember the important points that you read in a lesson.
- () 47 While studying there is no harm in thinking of outside issues.
- () 48 You should be serious but nice and funny.
- () 49 You should be serious but smiling and sociable.
- () 50 You can arrive late to class as long as you copy what you miss.
- () 51 You should arrive to class on time or before the teacher.
- () 52 You have good spoken English proficiency.
- () 53 You have good written English proficiency.
- () 54 You find it difficult to study in English.
- () 55 You should be very active and quick thinker.
- () 56 You should be a quick and accurate performer.
- () 57 You should have the ability to act quickly in difficult situations.
- () 58 It is enough for a nurse to be kind and nice.
- () 59 You should admit to your mistakes.
- () 60 You should learn from your mistakes to avoid them in future.
- () 61 You feel squeamish if you see a terrible wound.
- () 62 You consider yourself sensitive because you feel deep sorrow for the ill.
- () 63 You consider yourself sensitive because you try to alleviate patients sorrow.
- () 64 You consider yourself sensitive because you suffer for the ill patients although you control yourself in front of them.
- () 65 You consider yourself calm because you respond calmly to a situation if you are treated badly.

- () 66 You consider yourself nervous because you loose your temper if treated badly.
- () 67 If noise increases while you are studying you must feel frustrated and leave studying.
- () 68 If noise increases while you are studying you should give yourself a break then go back to study.
- () 69 Work is something that I do not like to do.
- () 70 You had to study a lot at school.
- () 71 You consider life with no work to be ideal.
- () 72 You consider that it is a waste of time to prepare for something important.
- () 73 You should have a high commitment in front of yourself when studying.
- () 74 You should make up your mind to exert maximum effort to follow the teacher's lecture.
- () 75 You should study a lot more than you plan.
- () 76 If you do not achieve your goal you should leave it.
- () 77 Trying not to neglect your homework is not very important.
- () 78 You make up your mind to exert low effort when embarking on your homework.
- () 79 You should put high limits for self.
- () 80 When you are called to watch T.V. you should later go back to study.
- () 81 You normally like doing jobs that require responsibility.
- () 82 You should study moderately hard.
- () 83 It is not important to reach to a good position in life.
- () 84 If work turns out to be difficult you should abandon it quickly.
- () 85 You plan for future most of the time.
- () 86 You regard hard working students as very polite.
- () 87 You admire people who achieve high positions in life.
- () 88 Usually you do not have enough time to do something for fun.
- () 89 You are very busy all the time.
- () 90 You can work on something for a very short time before you get tired.

- () 91 You regard that keeping good relations with your teachers as not very important.
- () 92 You feel that children follow their father's in managing their jobs to expand them.
- () 93 You are normally very energetic about school.
- () 94 You like to be organised all the time.
- () 95 You feel that it is not important to successfully complete a job that you start.
- () 96 You feel uneasy about school.
- () 97 It will not be difficult (was not difficult) for you to achieve a CGPA of 3.00 at College.
- () 98 You feel disappointed quickly when you fail in doing something.
- () 99 You ask for support when you have problems in your studies.
- () 100 When you start something you should finish it.
- () 101 You consider that your academic level is equal to most other students in your class.
- () 102 People can easily change your mind about something you have made up your mind about.
- () 103 Your friends feel that you should not complete your studies after high school.
- () 104 Your family members encourage you to continue education beyond your high school level.
- () 105 You feel that your grades in high school are not indicative of your real academic level.

Biographical Information:-

Name:----- Student No:-----

Date of Joining the college:-----

- 1 No. of family members :-----
- 2 Family income: (1) < BD100/- (2) BD 100-199 (3) BD 200-299 (4) BD 300-399 (5) BD 400-499
(6) BD >500
- 3 Father's occupation:-----
- 4 Mother's occupation before marriage:-----
- 5 Mother's occupation after marriage:-----
- 6 Father's education: (1) Illeterate (2) Religion school (3) Primary (4) Elimentary (5) Secondary (6) Diploma (7) University (8) Others (specify).
- 7 Mother's education: (1) Illeterate (2) Religion school (3) Primary (4) Elimentary (5) Secondary (6) Diploma (7) University (8) Others (specify).
- 8 Do you have a place to study at home: (1) Yes (2) No
- 9 The highest academic level you aspire to achieve: (1) Diploma (2) Baccalaureate Degree (3) Masters Degree (4) Doctorate Degree

(ATTACHMENT 7)



UNIVERSITY OF MARYLAND AT COLLEGE PARK

COUNSELING CENTER

May 5, 1993

Ms. Amal J. Zabaneh
P.O. Box 881
Manama, Bahrain
Arabian Gulf

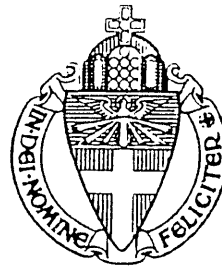
Dear Ms. Zabaneh:

Enclosed is the NCQ package. You have my permission to use the NCQ.

Sincerely,

A handwritten signature in cursive script, reading "William E. Sedlacek".

William E. Sedlacek
Assistant Director
Counseling Center
Professor of Education



Katholieke *Universiteit* Nijmegen

Faculty of Social
Sciences

Department of
Clinical Psychology
and Personality

- 245050

Ms. Amal J. Zabaneh
P.O. Box 881
MANAMA, BAHRAIN,
ARABIAN GULF.

Your Reference

Our Reference
HH/WCI

Telephone
+31 80 61 25 75

Date
May 26, 1993

Concerning

Dear Ms. Zabaneh:

Regarding your letter dated May 2, 1993, I hereby give you permission to use the test for research purposes. For relevant information on the reliability and validity of the test I enclose a copy of the article 'A questionnaire measure of achievement motivation' (+ scoring key).

Sincerely,

Prof.dr. H.J.M. Hermans

A handwritten signature in black ink, appearing to be 'H.J.M. Hermans', written over a horizontal line.

Enclosure(s) article and scoring key

Telephone
+31 80 61 25 75

Mailing address:
P.O.Box 9104

Visiting address:
Montessorilaan 3

APPENDIX B

REPERTORY GRID ANALYSIS

First year student's grid analysis

Grid data

FLEXIGRID v5.1 June 1990. File: Time: 04-05-1993 04:14:32 0 : 25 : 38 Copyright (C) 1990 by Finn Tschudi. University of Oslo. NORWAY.
486524 bytes free

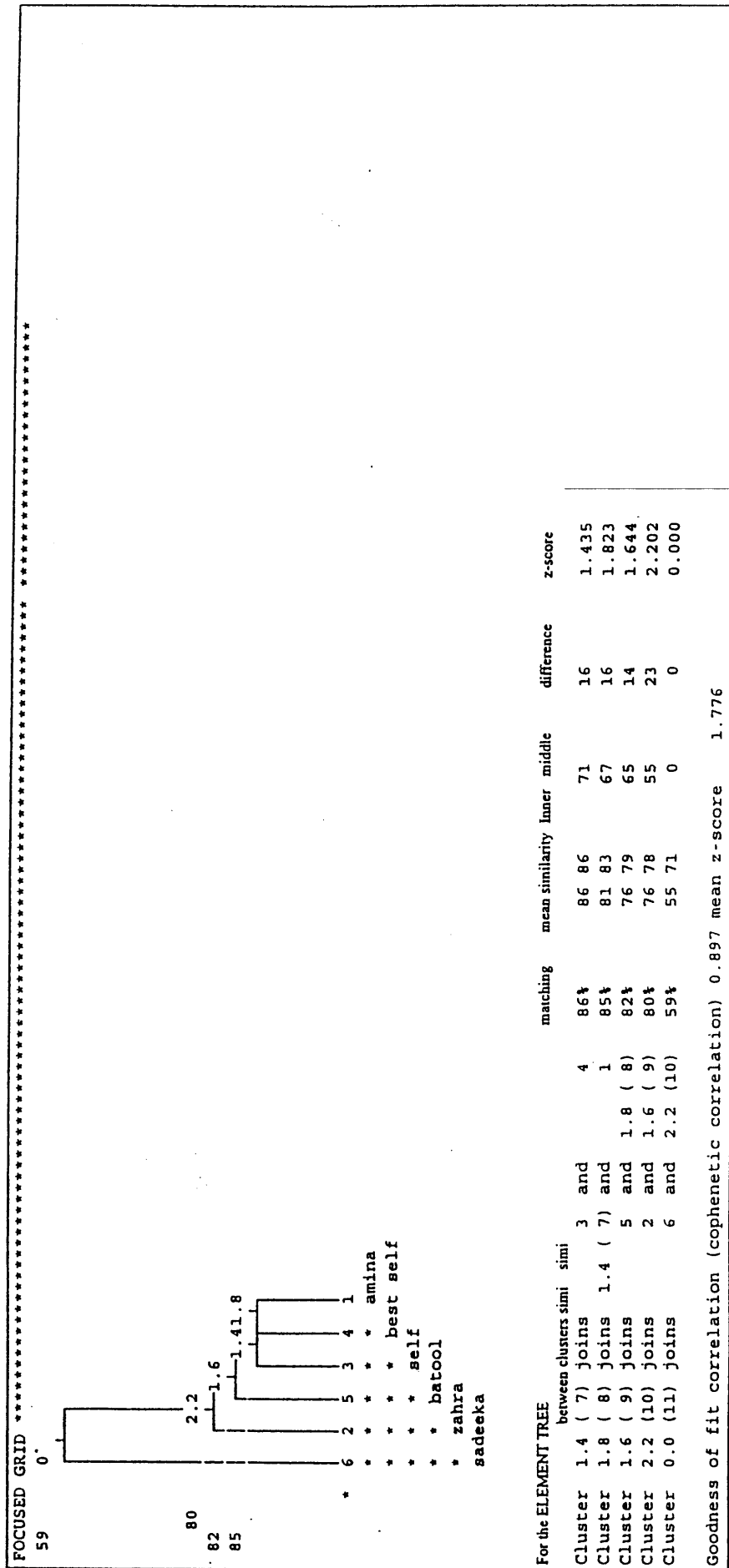
TABLE 1: FIRST YEAR STUDENT'S GRID DATA

POLE	CONTRAST	1	2	3	4	5	6
aspire for higher educat.	only get AD gng 1	5	4	5	5	3	1
read text&teach.notes	rely on teacher notes 2	5	5	4	5	4	2
rely on self understand	rely on teacher underst. 3	4	5	5	5	4	3
underst.if class is quiet	prefer noise..to underst. 4	5	1	4	5	3	3
rely on memorize to pass	rely on understanding 5	5	1	3	3	4	2
memorize without underst.	can't memorize 6	5	2	3	3	2	2
compete for higher grades	only want to pass 7	5	5	4	5	4	2
present to class on time	late to class 8	5	4	4	5	4	5
study hard &pass exams	dont study&want to pass 9	5	5	5	5	4	3
study & able to remember	study but able to... 10	5	5	4	5	4	3
concentrate in class	dont concentrate.. 11	5	5	3	5	4	4
good in English	poor in English 12	5	4	4	5	4	4
prefer to study library	prefer ..at home 13	2	2	5	5	3	1
quiet atmosphere at home	atmosph.at home not quiet 14	5	1	4	5	3	2
use dictionary at library	have dictionary at home 15	2	4	5	5	4	3
coeducation distract att.	coeducation ..attention 16	1	1	1	1	2	2
real interest in gng	not real interest in gng 17	4	4	5	5	5	3
want to continue educati.	want to graduate & get a job 18	5	5	5	5	4	1
alwalys wanted hospital.	not like..hospital prof. 19	5	4	5	5	4	4
married	not married 20	1	1	1	1	1	5
free at home to study	busy at home 21	5	5	5	5	5	1
liked by friends	passive/ no relations... 22	4	5	3	5	4	4
discuss lesson X friends	dont discuss with.. 23	5	4	4	5	4	3
chat with friends	sit alone and study 24	3	4	3	2	4	4

* * * * * sadeeka
 * * * * * batool
 * * * best self
 * * self
 * zahra
 amina

FOCUS analysis *****
CONSTRUCT 4 reflected
CONSTRUCT 5 reflected
CONSTRUCT 6 reflected
CONSTRUCT 14 reflected
CONSTRUCT 16 reflected
CONSTRUCT 20 reflected
Cluster analysis (Focus Grid)

Table 2.A: First year student's element tree



(continue) Table 2.B: First year student's construct elicitation

CONSTRUCTS - same sequence as in GRID above

free at home to study 20 --- married
 want to continue educati. 18 --- busy at home
 aspire for higher educat. 1 --- only get AD gng
 use dictionary at library 13 --- prefer ...at home
 real interest in gng 17 --- have dictionary at home
 rely on self understand 3 --- not real interest in gng
 study hard & pass exams 9 --- rely on teacher underst.
 study & able to remember 10 --- dont study/want to pass
 read text&teach.notes 2 --- study but able to...
 compete for higher grades 7 --- rely on teacher notes
 discuss lesson X friends 23 --- only want to pass
 present to class on time 8 --- dont discuss with...
 good in English 12 --- late to class
 always wanted hospital. 19 --- poor in English
 coeducation ..attention 16 --- not like..hospital prof.
 concentrate in class 11 --- coeducation distract att.
 liked by friends 22 --- dont concentrate...
 chat with friends 24 --- passive/no relation..
 can't memorize 6 --- sit alone and study
 rely on understanding 5 --- memorize without underst.
 atmosph.at home not quiet 14 --- rely on memorize to pass
 prefer noise...to underst. 4 --- quiet atmosphere at home
 underst.if class is quiet

For the CONSTRUCT TREE

Cluster		matching	mean similarity			difference	z-score
			between clusters	inner	middle		
Cluster 1.8 (25) joins	2 and	7	100%	100 100	56	1.782	44
Cluster 2.2 (26) joins	20 and	21	100%	100 100	47	2.170	53
Cluster 1.3 (27) joins	3 and	9	92%	92 92	59	1.341	33
Cluster 2.4 (28) joins	10 and 1.8 (25)	10	92%	92 94	56	2.407	38
Cluster 3.0 (29) joins	1.3 (27) and 2.4 (28)	12	92%	82 87	54	3.044	33
Cluster 1.5 (30) joins	8 and	12	92%	92 92	54	1.550	38
Cluster 3.3 (31) joins	14 and	4	92%	92 92	10	3.348	82
Cluster 2.2 (32) joins	1.5 (30) and 19	19	92%	88 89	54	2.216	35
Cluster 3.0 (33) joins	2.2 (26) and 18	18	92%	92 94	47	2.988	48
Cluster 1.5 (34) joins	11 and	22	92%	92 92	54	1.534	38
Cluster 2.6 (35) joins	2.2 (32) and 16	16	92%	83 86	53	2.631	33
Cluster 2.9 (36) joins	17 and 3.0 (29)	1	83%	68 81	52	2.944	28
Cluster 3.3 (37) joins	3.0 (33) and 1	1	83%	78 86	45	3.236	41
Cluster 3.4 (38) joins	2.9 (36) and 23	23	83%	82 81	51	3.411	30
Cluster 4.8 (39) joins	3.4 (38) and 2.6 (35)	83%	74 78	43	35	4.763	39
Cluster 5.4 (40) joins	4.8 (39) and 1.5 (34)	83%	72 76	38	39	5.381	39
Cluster 2.1 (41) joins	6 and 5	75%	75 75	23	52	2.123	52
Cluster 5.3 (42) joins	15 and 5.4 (40)	75%	59 74	36	38	5.293	38
Cluster 2.7 (43) joins	24 and 2.1 (41)	75%	63 67	24	42	2.656	42
Cluster 4.5 (44) joins	2.7 (43) and 3.3 (31)	67%	54 62	14	48	4.472	48
Cluster 2.7 (45) joins	3.3 (37) and 13	58%	42 68	39	29	2.708	29
Cluster 6.0 (46) joins	2.7 (45) and 5.3 (42)	58%	53 65	14	51	6.031	51
Cluster 0.0 (47) joins	6.0 (46) and 4.5 (44)	58%	14 47	0	0	0.000	0

Goodness of fit correlation (cophenetic correlation) 0.874 mean z-score 3.095

Principal component analysis

FLEXIGRID v5: FPCA analysis *****

Data transformation: 1): Correlate CONSTRUCTS (standardize CONSTRUCTS); MOST COMMON
angular construct distances and normed element distances

a) Maximal nr. of components = 3

b) Minimum relative variance of a component (1 recommended by Kaiser) 0
if b) gives K components then nr. of components will be: $M = \text{MIN}(3, K)$

Maximal nr. of components for VARIMAX = 3

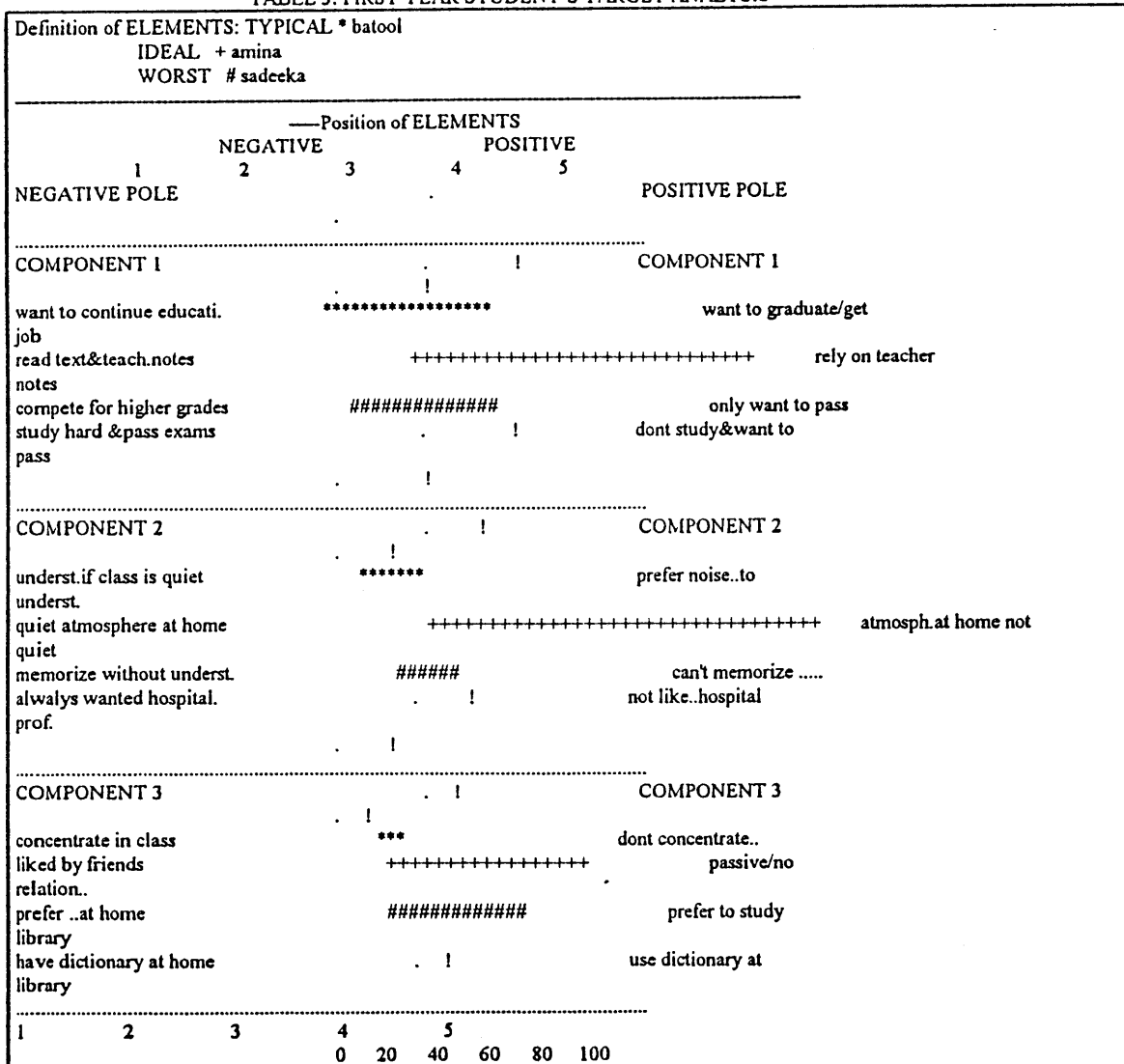
PLOT and/or TARGET from UNROTATED matrices

PLOT and/or TARGET from ROTATED matrices

FLEXIGRID v5.1 June 1990.

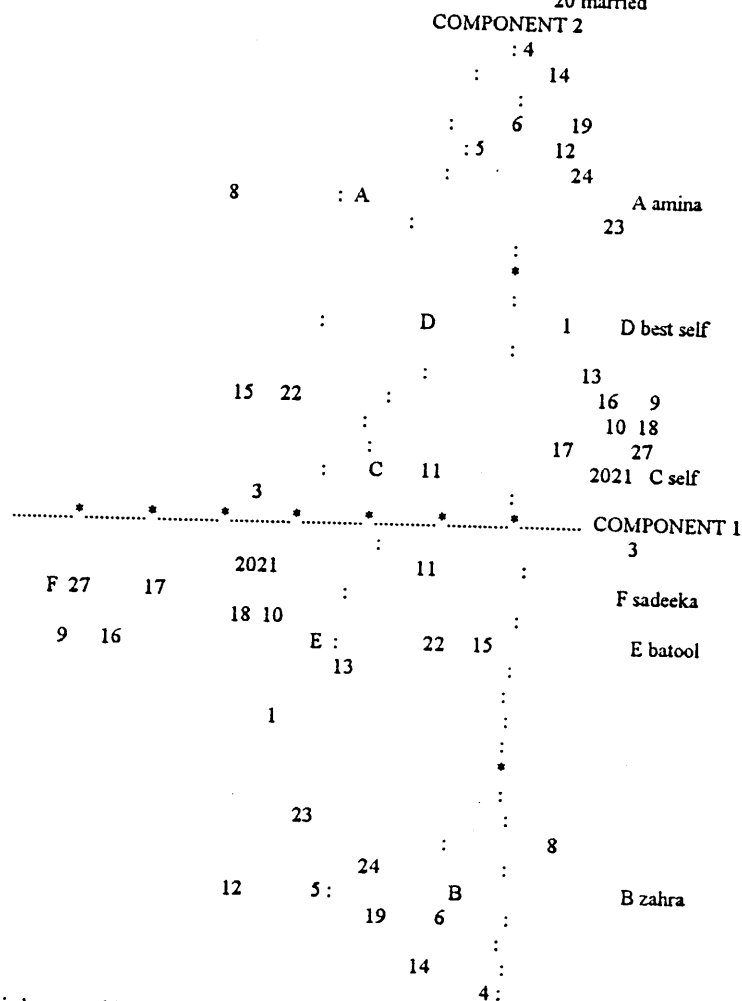
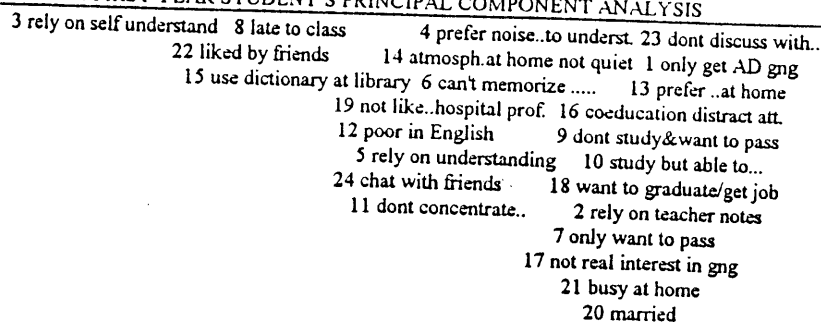
TARGET - rotated results 1 amina picked as an IDEAL

TABLE 3: FIRST YEAR STUDENT'S TARGET ANALYSIS



PLOT - rotated results 1 amina picked as an IDEAL

TABLE 4: FIRST YEAR STUDENT'S PRINCIPAL COMPONENT ANALYSIS



20 not married 11 concentrate in class 15 have dictionary at home 3 rely on teacher underst.
21 free at home to study 24 sit alone and study 22 passive/no relation..
17 real interest in gng 5 rely on memorize to pass 8 present to class on time
7 compete for higher grades 12 good in English
2 read text & teach notes 19 always wanted hospital.
18 want to continue educati. 6 memorize without underst.
10 study & able to remember 14 quiet atmosphere at home
9 study hard & pass exams 4 underst. if class is quiet
16 coeducation ..attention
13 prefer to study library
1 aspire for higher educuat.
23 discuss lesson X friends

(CONTINUE) TABLE 4: FIRST YEAR STUDENT'S PRINCIPAL COMPONENT ANALYSIS

13 prefer to study library	15 use dictionary at library	11 dont concentrate..	10 study but able to...
17 real interest in gng	8 late to class	22 passive/no relation..	7 only want to pass
3 rely on self understand	19 alwalys wanted hospital.	12 poor in English	2 rely on teacher notes
21 free at home to study	14 quiet atmosphere at home	6 can't memorize	23 dont discuss with..
20 not married	4 underst.if class is quiet	16 coeducation distract att.	
1 aspire for higher educat.	24 sit alone and study	9 dont study&want to pass	
	18 want to continue educati.	5 rely on memorize to pass	
COMPONENT 3			
		:	
		:	11
		:	
		:	22
		:	
	13 15	:	
	17	:	
8	* A	:	A amina
	:	:	12
	B	:	10 B zahra
	:	:	
	:	:	23 27
3	19	:	
	14	:	
F 20211	24	:	16 D best self
18	5:	:	F sadeeka
9.....*	*	:	9.....*
	5	:	COMPONENT 1
	:	:	18
16	:	:	1 2021
	:	:	
	24	:	14
	: 4	:	
	19	:	3
27 23	6	:	
E :	:	:	E batool
	:	:	
10	:	:	
	12	:	
	*	:	8
	:	:	17
	:	:	15 13
	:	:	
	22	:	
	:	:	
11	:	:	C self
	C	:	
	:	:	
9 study hard &pass exams	6 memorize without underst.	5 rely on understanding	18 want to graduate/get job
16 coeducation ..attention	12 good in English	24 chat with friends	1 only get AD gng
23 discuss lesson X friends	22 liked by friends	4 prefer noise..to underst.	20 married
2 read text&teach.notes	11 concentrate in class	14 atmosph.at home not quiet	21 busy at home
7 compete for higher grades	19 not like..hospital prof.	3 rely on teacher underst.	
10 study & able to remember	8 present to class on time	17 not real interest in gng	
	15 have dictionary at home	13 prefer ..at home	

(CONTINUE) TABLE 4: FIRST YEAR STUDENT'S PRINCIPAL COMPONENT ANALYSIS

19 always wanted hospital. 22 passive/no relation.. 11 dont concentrate.. 8 late to class
14 quiet atmosphere at home 13 prefer to study library 15 use dictionary at library 12 poor in English
4 underst. if class is quiet 17 real interest in gng 10 study but able to... 6 can't memorize
24 sit alone and study 21 free at home to study 7 only want to pass 23 dont discuss with..
5 rely on memorize to pass 20 not married 2 rely on teacher notes
1 aspire for higher educat. 3 rely on self understand
18 want to continue educati. 16 coeducation distrust att.
9 dont study&want to pass

COMPONENT 3

[illegible]

23 discuss lesson X friends 9 study hard & pass exams 18 want to graduate/get job 5 rely on understanding
6 memorize without underst. 16 coeducation ..attention 1 only get AD gng 24 chat with friends
12 good in English 3 rely on teacher underst. 20 married 4 prefer noise..to underst.
8 present to class on time 2 read text&teach.notes 21 busy at home 14 atmosph.at home not quiet
7 compete for higher grades 17 not real interest in gng 19 not like..hospital prof.
10 study & able to remember 13 prefer ..at home
15 have dictionary at home 22 liked by friends
11 concentrate in class

Second year student's grid analysis

Grid data

FLEXIGRID v5.1 June 1990. Time: 02-28-1993 05:32:51 0 : 29 : 32 Copyright (C) 1990 by
Finn Tschudi. University of Oslo. NORWAY.
486718 bytes free

TABLE 5: SECOND YEAR STUDENT'S GRID DATA

POLE	CONTRAST	1	2	3	4	5	6
underst. & memorize lesson	limited when.... 1	5	5	4	5	1	1
grasp info. & record it	don't care 2	5	5	5	5	3	2
ask to understand	don't care to ask 3	5	5	5	5	1	1
care for info. from teach.	care for info. from book 4	5	5	4	5	1	2
study daily	study before exam only 5	5	4	4	5	1	1
go library to study	don't care 6	5	3	3	5	1	1
get extra info. from libr.	don't care 7	5	4	3	5	1	1
intelligent	under. quickly / must repeat to understand 8	5	5	5	5	2	2
summarize what she study	quick reading 9	5	5	5	5	1	1
manage her time	don't manage time 10	5	5	5	5	1	1
have social problems	no social problems 11	1	1	1	1	4	5
good mood when study	poor mood when study 12	5	4	4	5	2	1
grade goals	no grade goals 13	5	5	5	5	1	1
feel if study hard get good grades	..do not get good grades 14	5	5	5	5	1	1
healthy can study	sickness affect studies 15	5	5	5	5	3	4
no duties at home	duty at home hinder study 16	5	5	5	5	1	1
big family	small family 17	2	2	1	1	5	5
try improve social status	don't try .. 18	5	5	5	5	2	1
mother encouragement	lack of mother 19	5	5	5	5	3	2
culture allow girl coedu.	..don't allow..coeducat. 20	5	5	5	5	2	2
marriage affect study	marriage don't affect.. 21	1	1	1	1	5	5
try improve self	don't try improve 22	5	5	5	5	3	3

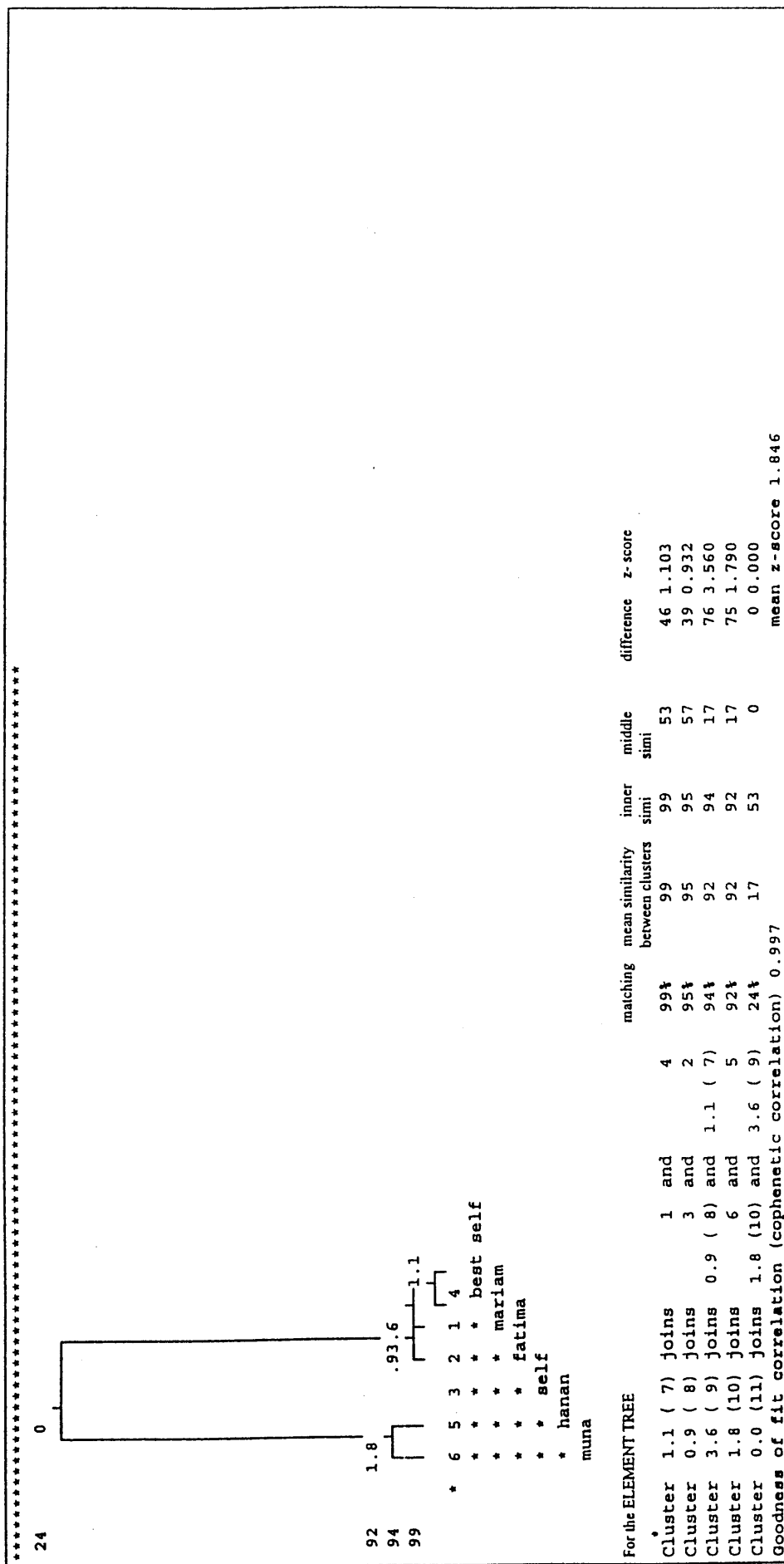
* * * * * muna
 * * * * * hanan
 * * * best self
 * * self
 * fatima
 mariam

Cluster analysis(Focus Grid)

P L E X I G R I D 5.1 June 1990. File: 52 Time: 04-08-1993 00:58:34
 Copyright (C) 1990 by Finn Tschudi. University of Oslo. NORWAY
 Grid title: 1
 FOCUS analysis *****

CONSTRUCT 11 reflected
 CONSTRUCT 17 reflected
 CONSTRUCT 21 reflected

Table 6.A: Second year student's element tree



Principal component analysis

FLEXIGRID v5.1 June 1990:FPCA analysis

Data transformation: 1): Correlate CONSTRUCTS (standardize CONSTRUCTS): MOST COMMON
angular construct distances and normed element distances

a) Maximal nr. of components = 3

b) Minimum relative variance of a component (1 recommended by Kaiser) 0
if b) gives K components then nr. of components will be: $M = \text{MIN}(3, K)$

Maximal nr. of components for VARIMAX = 3

PLOT and/or TARGET from UNROTATED matrices

PLOT and/or TARGET from ROTATED matrices

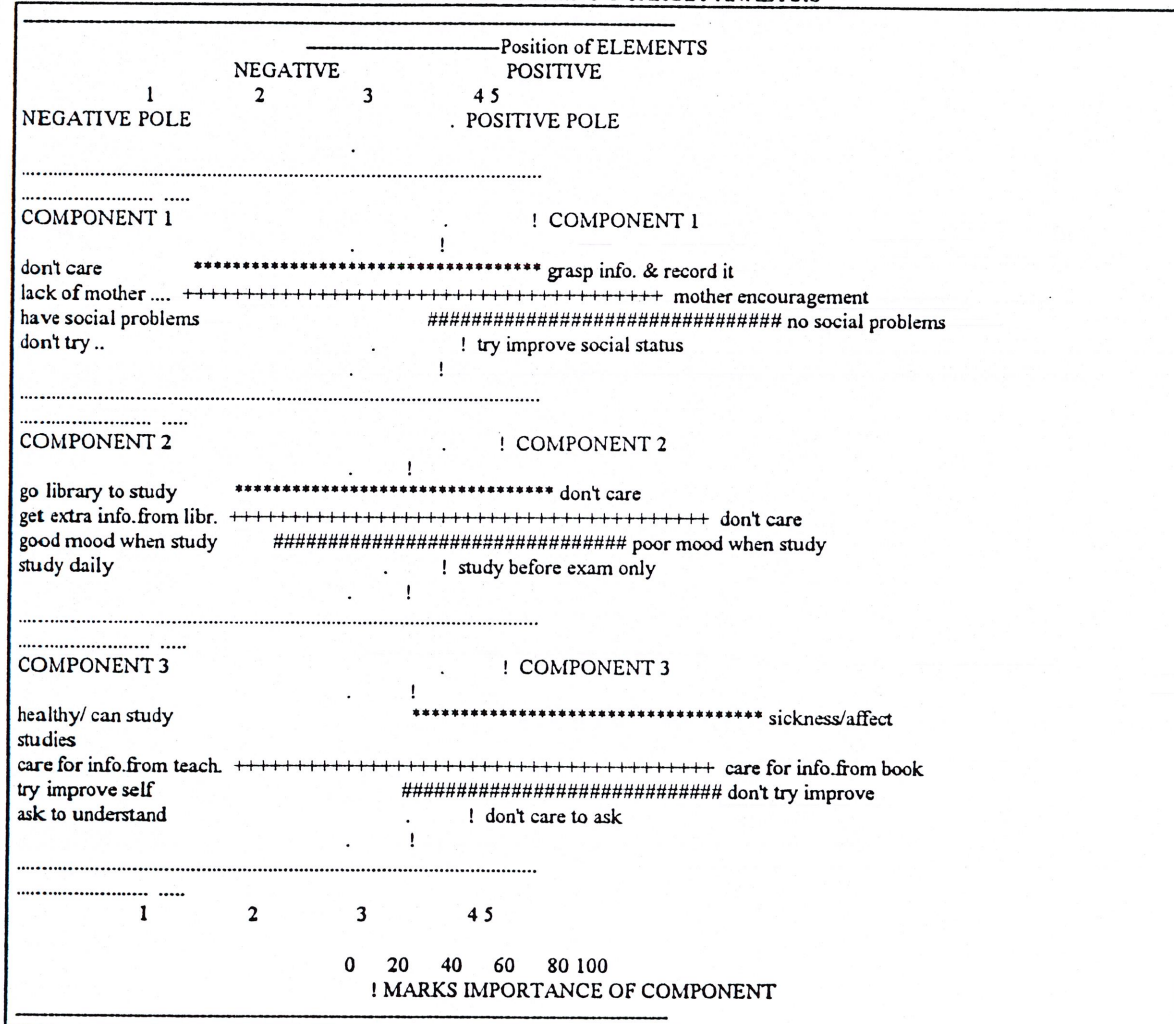
TARGET - rotated results 1 mariam picked as an IDEAL

Definition of ELEMENTS: TYPICAL * fatima

IDEAL + mariam

WORST # muna

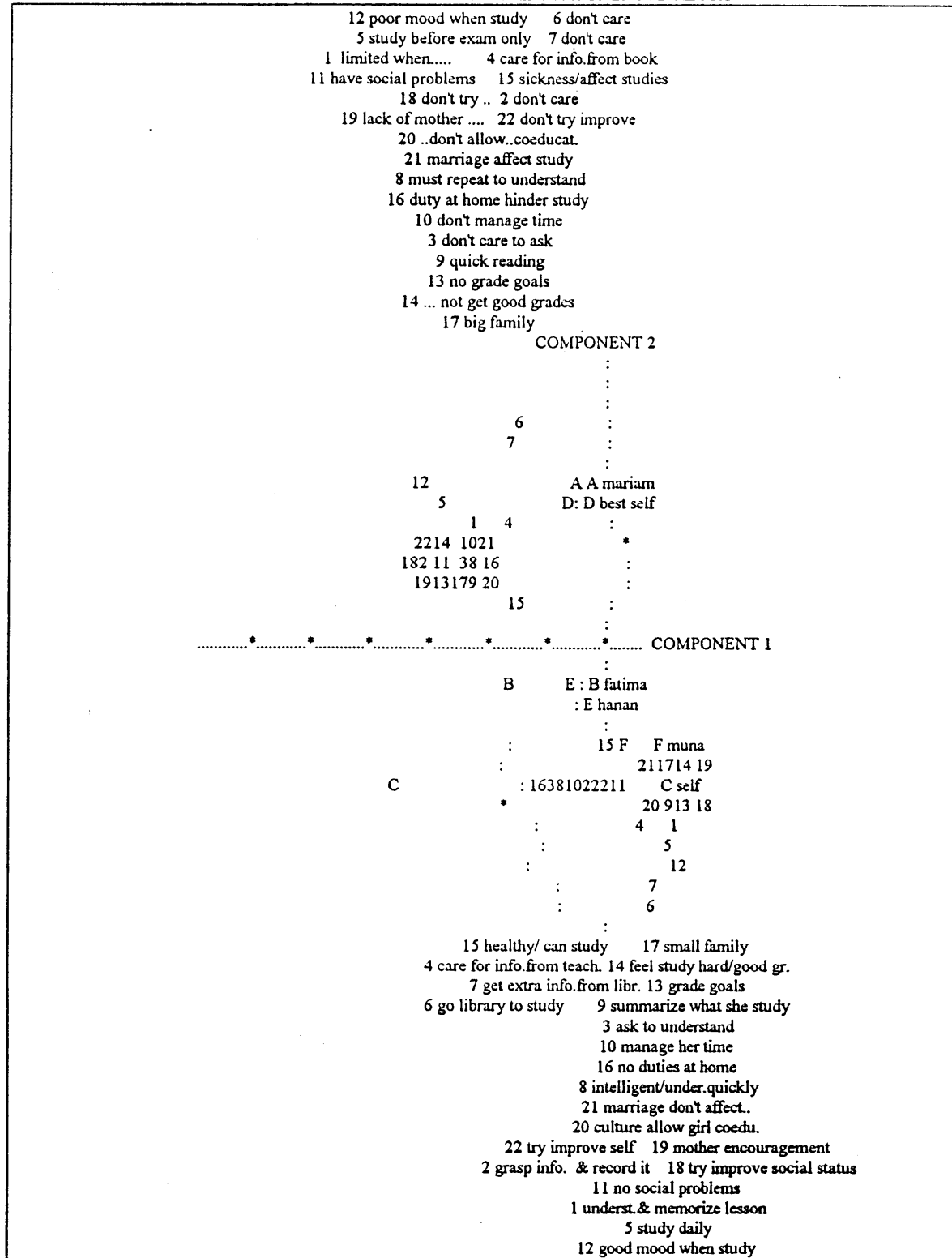
TABLE 7: SECOND YEAR STUDENT'S TARGET ANALYSIS



FLEXIGRID v5.1 June 1990.

PLOT - rotated results 1 mariam picked as an IDEAL. Reflection of axis 1

TABLE 8: SECOND YEAR STUDENT'S PRINCIPAL COMPONENT ANALYSIS



(CONTINUE) TABLE 8: SECOND YEAR STUDENT'S PRINCIPAL COMPONENT ANALYSIS

22 don't try improve 15 sickness/affect studies
 9 quick reading 4 care for info.from book
 10 don't manage time 7 don't care
 13 no grade goals 6 don't care
 14 ... not get good grades
 16 duty at home hinder study
 3 don't care to ask
 20 ..don't allow..coeducat.
 21 marriage affect study
 8 must repeat to understand
 17 big family 1 limited when.....
 5 study before exam only
 11 have social problems
 18 don't try .. 19 lack of mother
 2 don't care 12 poor mood when study

COMPONENT 3

15
 4
 16 1021
 2213 38 2014179 1
 5
 1118 7
 219 6 B : B fatima
 12
 C : F C self
 : F muna
 :
 : D best self
 DA A mariam

COMPONENT 1

12
 6 2 19
 7 1118
 5
 1 211714
 16381022
 20 913
 4
 15 E hanan
 6 go library to study 12 good mood when study
 7 get extra info.from libr. 2 grasp info. & record it
 4 care for info.from teach. 19 mother encouragement
 15 healthy/ can study 18 try improve social status
 11 no social problems
 5 study daily
 1 underst.& memorize lesson
 17 small family
 8 intelligent/under.quickly
 21 marriage don't affect..
 20 culture allow girl coedu.
 3 ask to understand 16 no duties at home
 14 feel study hard/good gr.
 13 grade goals 10 manage her time
 9 summarize what she study
 22 try improve self

(CONTINUE) TABLE 8: SECOND YEAR STUDENT'S PRINCIPAL COMPONENT ANALYSIS

15 sickness/affect studies 4 care for info. from book
 22 don't try improve 1 limited when....
 10 don't manage time 5 study before exam only
 13 no grade goals 7 don't care
 14 ... not get good grades 6 don't care
 3 don't care to ask 12 poor mood when study
 16 duty at home hinder study
 9 quick reading
 20 ..don't allow..coeducat.
 21 marriage affect study
 8 must repeat to understand
 17 big family
 11 have social problems
 18 don't try ..
 19 lack of mother
 2 don't care

COMPONENT 3

: 15
 : 4
 : 20 14
 : 16381021
 * 17913221
 : 5
 : 1118 7
 B : 2 19 6 B fatima
 : 12
 C F : C self
 : F muna
 :
 : D best self

D A A mariam

COMPONENT 2

12 :
 6 219 :
 7 1118 :
 5 :
 1 16 1017 :
 2213 38 20 :
 14 9 21 :
 4 :
 15 : E hanan
 E
 12 good mood when study 2 grasp info. & record it
 6 go library to study 19 mother encouragement
 7 get extra info. from libr. 18 try improve social status
 5 study daily 11 no social problems
 1 underst. & memorize lesson 17 small family
 4 care for info. from teach. 8 intelligent/under. quickly
 21 marriage don't affect..
 20 culture allow girl coedu.
 9 summarize what she study
 16 no duties at home
 3 ask to understand
 14 feel study hard/good gr.
 13 grade goals
 10 manage her time
 22 try improve self
 15 healthy/ can study

Third year student's grid analysis

Grid data

FLEXIGRID v5.1 June 1990. Time: 03-25-1994 17:17:13 0 : 0 : 28
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 401950 bytes free

TABLE 9: THIRD YEAR STUDENT'S GRID DATA

POLE	CONTRAST	1	2	3	4	5	6
like study together	study alone 1	5	3	5	5	1	1
complete job on time	slow in her work 2	4	5	5	5	3	2
eager to learn new things	not eager all the time 3	3	5	5	5	2	1
give chance to others	don't...do new procedure 4	1	5	5	5	1	2
personal relat.X students	poor personal relation... 5	5	4	3	5	1	1
tell about her grades	don't let others know.. 6	1	5	5	5	2	1
concentrate while study	don't concentrate... 7	5	5	4	5	1	1
ask self ques.while study	read only 8	4	5	5	5	2	2
in exam relate know.Xques	don't concentrate in exam 9	5	5	5	5	3	1
active movement serv.pt.	slow move.serving patien. 10	4	5	5	5	2	1
free to study	not free/married responsible 11	5	4	4	5	3	1
active attitude	cool attitude 12	5	5	4	5	1	1
arrive before college	late to college 13	3	4	2	5	5	5

* * * * * fatima
 * * * * * mariam
 * * * best self
 * * self
 * shafiq
 bahja

Principal component analysis

FPCA analysis

Data transformation: 1): Correlate CONSTRUCTS (standardize CONSTRUCTS): MOST COMMON
angular construct distances and normed element distances

a) Maximal nr. of components = 5

b) Minimum relative variance of a component (1 recommended by Kaiser) 0
if b) gives K components then nr. of components will be: $M = \min(5, K)$

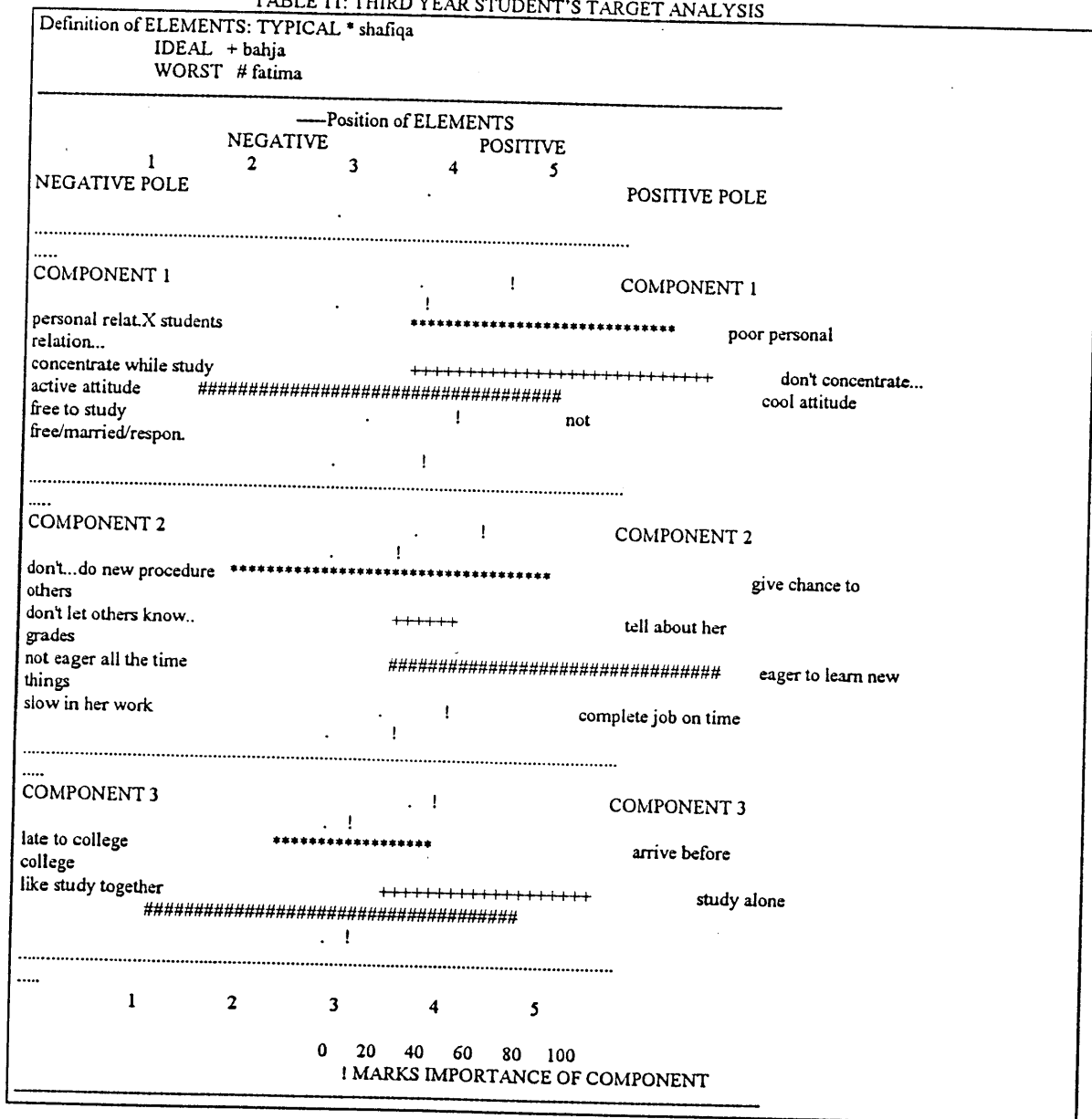
Maximal nr. of components for VARIMAX = 5

PLOT and/or TARGET from UNROTATED matrices

PLOT and/or TARGET from ROTATED matrices

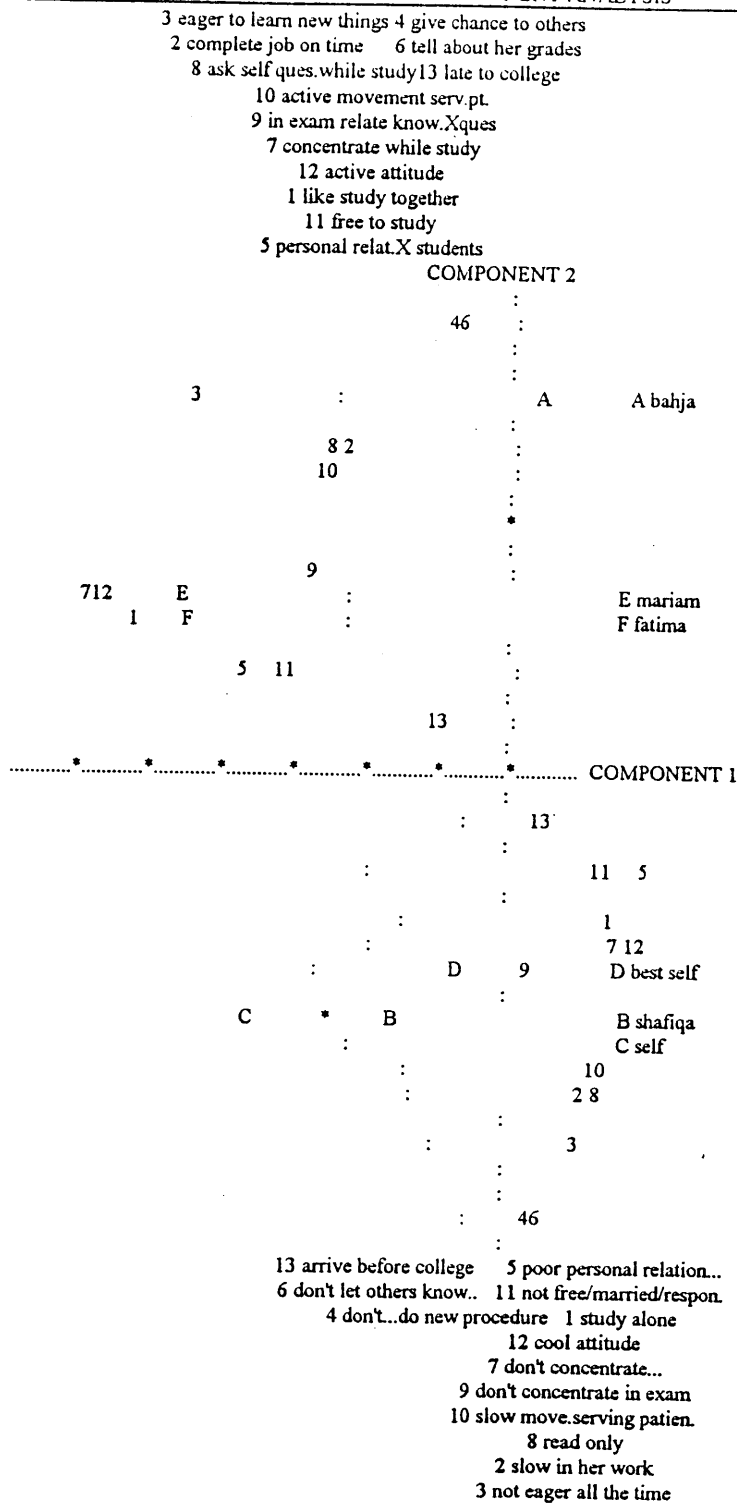
TARGET - rotated results 1 bahja picked as an IDEAL

TABLE 11: THIRD YEAR STUDENT'S TARGET ANALYSIS



PLOT - rotated results 1 bahja picked as an IDEAL. Reflection of axis 2 3 5

TABLE 12: THIRD YEAR STUDENT'S PRINCIPAL COMPONENT ANALYSIS



**

(CONTINUE) TABLE 12: THIRD YEAR STUDENT'S PRINCIPAL COMPONENT ANALYSIS

[illegible]

育英

4 give chance to others 6 don't let others know... 11 not free/married/respon.
13 arrive before college 9 don't concentrate in exam
2 slow in her work
10 slow move.serving patient
3 not eager all the time
1 study alone
8 read only
5 poor personal relation...
7 don't concentrate...
12 cool concentrate

COMPONENT 4

E : E mariam

11
9
2
10
3
6
1
C 4 : 13 D 8 5 C self
: 13 D 8 5 D best self
7.12 5 8 13 : A* 7.12 COMPONENT 1
1 : B4 A bahja
10 3 6 : B shafiq
2 :
9 :
11 :
F : F fatima

12 active attitude 13 late to college 4 don't...do new procedure
7 concentrate while study 6 tell about her grades
5 personal relat.X students
8 ask self ques.while study
1 like study together
3 eager to learn new things
10 active movement serv.pt.
2 complete job on time
9 in exam relate know.Xques
11 free to study

[illegible]

8 read only 13 arrive before college
10 slow move.serving patien. 1 study alone
2 slow in her work 9 don't concentrate in exam
3 not eager all the time 12 cool attitude
4 don't...do new procedure 7 don't concentrate...
6 don't let others know.. 11 not free/married/respon.
5 poor personal relation...

[illegible]

2 2 slow in her work 7 don't concentrate... 1 like study together 4 give chance to others
10 slow move.serving patien.12 cool attitude 11 free to study 8 ask self ques.while study
3 not eager all the time 9 don't concentrate in exam 5 personal relat.X students 6 tell about her grades
13 late to college

[illegible]

(CONTINUE) TABLE 12. THIRD YEAR STUDENT DATA

13 late to college 1 like study together 7 don't concentrate...
11 free to study 12 cool attitude
4 give chance to others 9 don't concentrate in exam
5 personal relat.X students 2 slow in her work
8 ask self ques.while study 10 slow move.serving patien.
6 tell about her grades 3 not eager all the time

COMPONENT 5

B : B shafiq

:

:

:

:

:

:

:

:

:

:

:

:

:

:

1 :

:

:

:

E 11 : E mariam

45 : A bahja

7 12 9 A

.13.....*.....*.2.3.....6..*..6.....3.2.8.10.....*.....*.....13. COMPONENT 3

9 10 7 12 : 45

F : 11 F fatima

:

:

:

:

:

:

:

:

:

:

:

D : D best self

:

:

:

:

:

3 eager to learn new things 6 don't let others know.. 13 arrive before college
10 active movement serv.pt. 8 read only
2 complete job on time 5 poor personal relation..
9 in exam relate know.Xques 4 don't...do new procedure
12 active attitude 11 not free/married/respon.
7 concentrate while study 1 study alone

[illegible]

Graduate student's grid analysis

Grid data

FLEXIGRID v5.1 June 1990. Time: 03-24-1994 14:35:57 0 : 3 : 41 Copyright
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401606 bytes free

TABLE 13: GRADUATE STUDENT'S GRID DATA

POLE	CONTRAST	1	2	3	4	5	6
active in ward	not active 1	5	5	5	5	4	2
interest to learn in ward	no interest 2	5	5	5	5	5	1
social probl.delay gradu.	no social problems 3	1	1	1	1	5	1
persist complete studies	no persistence to compl.. 4	5	5	4	5	5	1
nervous in general	calm type 5	5	4	1	1	1	5
if asked teach other st.	can't teach 6	5	5	5	5	1	1
prepare for class	don't prepare for class 7	5	4	4	5	3	1
persistence higher educ.	no persistence... 8	5	5	5	5	3	1
courage to lead present.	no...to lead presentation 9	5	5	3	5	2	1
family/social encouragement	no..to be a nurse 10	2	5	2	5	4	1
good science background	poor science background 11	5	5	5	5	3	2
good English	poor English 12	4	4	4	5	1	5
present to class	absent from class 13	5	5	5	5	1	3
serious in class	not serious in class 14	5	4	4	5	4	1
study daily	study only before exams 15	5	5	4	5	1	1
committed while doing job	not committed... 16	5	5	5	5	3	1
punctual in general	not punctual... 17	5	3	5	5	4	1

* * * * * wijdan
* * * * * zahra
* * * best self
* * self
* sharifa
jehad

Cluster analysis

FILEXIGRID 5.1 June 1990. File: g
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Table 14.A: Graduate student's element tree

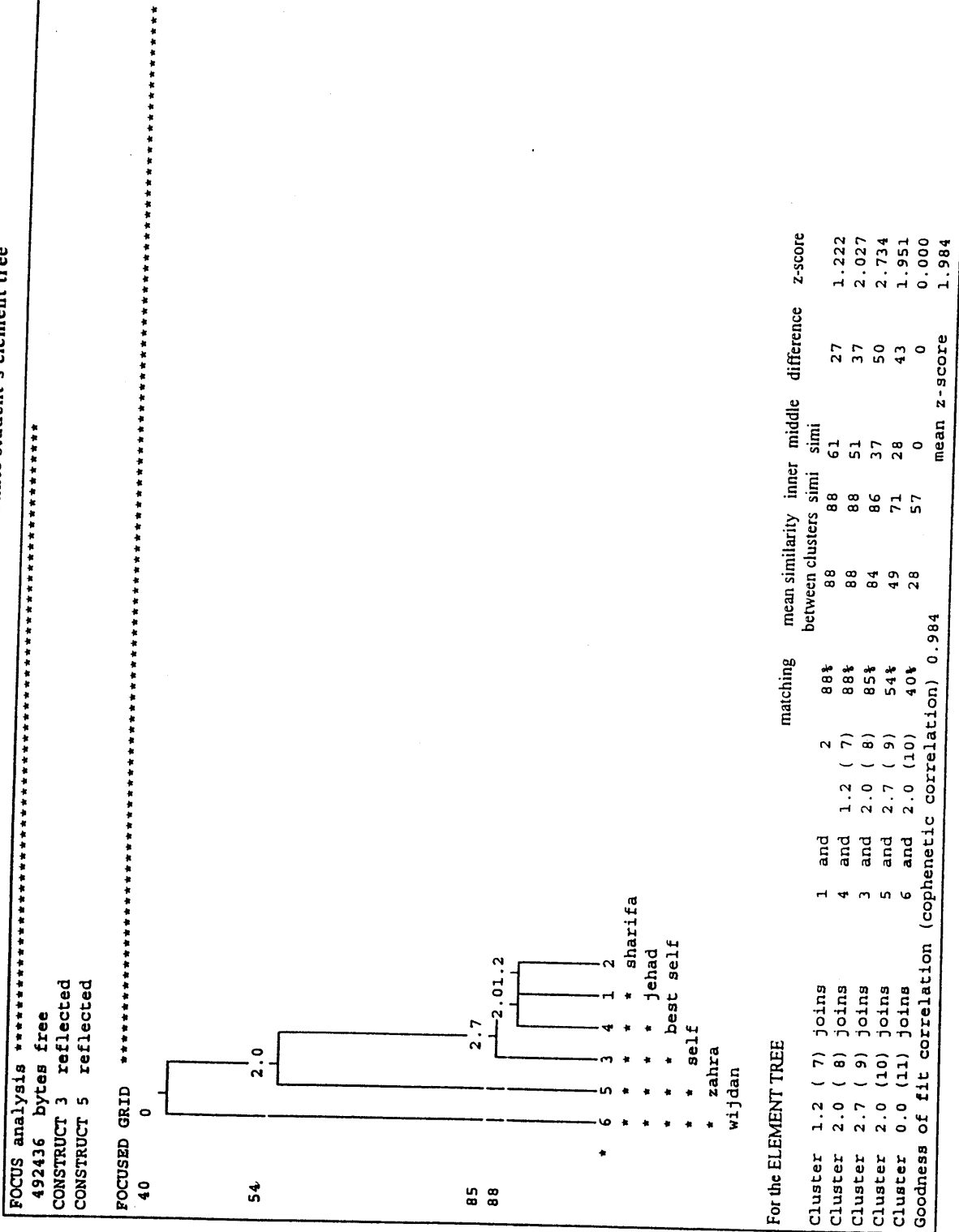


Table 14.B: Graduate student's construct tree

Matching levels for CONSTRUCT TREE																
	100	90	80	70	60	50	40	30	20	10	0					

12 *	5	1	4	5	4	4*	12									
3 *	5	1	5	5	5	3										
13 *	3	1	5	5	5	5*	13									
6 *	1	1	5	5	5	5*	6									
15 *	1	1	4	5	5	5*	15									
9 *	1	2	3	5	5	5*	9									
7 *	1	3	4	5	5	4*	7									
14 *	1	4	4	5	5	4*	14									
4 *	1	5	4	5	5	5*	4									
2 *	1	5	5	5	5	5*	2									
1 *	2	4	5	5	5	5*	1									
11 *	2	3	5	5	5	5*	11									
8 *	1	3	5	5	5	5*	8									
16 *	1	3	5	5	5	5*	16									
17 *	1	4	5	5	5	3*	17									
5 *	1	5	5	5	1	2*	5									
10 *	1	4	2	5	2	5*	10									

```
graph TD
    12 --- 3
    12 --- 13
    3 --- 6
    3 --- 15
    13 --- 9
    13 --- 7
    6 --- 15
    6 --- 9
    15 --- 9
    15 --- 7
    9 --- 7
    9 --- 14
    7 --- 14
    7 --- 4
    14 --- 4
    14 --- 2
    4 --- 2
    4 --- 1
    2 --- 1
    2 --- 11
    11 --- 8
    11 --- 16
    8 --- 16
    8 --- 17
    16 --- 17
    16 --- 5
    17 --- 5
    17 --- 10
    5 --- 10
    5 --- 0
```

(continue) Table 14.B: Graduate student's construct elicitation

CONSTRUCTS - same sequence as in GRID above

CONSTRUCTS	same sequence as in GRID above	12 ---	100%	matching mean similarity between clusters	inner	middle	difference	z-score
good English	12 ---	100%	100	100	67	33	1.754	
no social problems	3 ---	92%	92	92	59	33	1.739	
present to class	13 ---	92%	92	92	63	29	1.531	
if asked teach other st.	6 ---	92%	88	90	62	29	2.666	
study daily	15 ---	92%	92	92	61	30	1.620	
courage to lead present...	9 ---	92%	92	92	60	31	1.679	
prepare for class	7 ---	83%	77	83	57	27	3.024	
serious in class	14 ---	83%	79	83	56	27	2.090	
persist complete studies	4 ---	83%	75	80	53	27	3.395	
interest to learn in ward	2 ---	83%	72	78	55	23	2.128	
active in ward	1 ---	83%	63	72	51	21	2.223	
good science background	11 ---	75%	61	69	38	31	3.418	
persistence higher educ.	8 ---	75%	63	68	30	38	3.798	
committed while doing job	16 ---	75%	35	64	26	38	3.194	
punctual in general	17 ---	50%	19	58	33	25	1.563	
calm type	5 ---	33%	33	55	0	0	0.000	
family/soc.encouragement	10 ---							
no..to be a nurse								
For the CONSTRUCT TREE								
Cluster 1.8 (18) joins	8 and	16	100%	100	67	33	1.754	
Cluster 1.7 (19) joins	4 and	2	92%	92	59	33	1.739	
Cluster 1.5 (20) joins	1 and	11	92%	92	63	29	1.531	
Cluster 2.7 (21) joins	1.5 (20) and	1.8 (18)	92%	88	90	62	2.666	
Cluster 1.6 (22) joins	7 and	14	92%	92	61	30	1.620	
Cluster 1.7 (23) joins	6 and	15	92%	92	60	31	1.679	
Cluster 3.0 (24) joins	1.7 (19) and	2.7 (21)	83%	77	83	57	3.024	
Cluster 2.1 (25) joins	13 and	1.7 (23)	83%	79	83	56	2.090	
Cluster 3.4 (26) joins	1.6 (22) and	3.0 (24)	83%	75	80	53	3.395	
Cluster 2.1 (27) joins	2.1 (25) and	9	83%	72	78	55	2.128	
Cluster 2.2 (28) joins	3 and	2.1 (27)	83%	63	72	51	2.223	
Cluster 3.4 (29) joins	2.2 (28) and	3.4 (26)	75%	61	69	38	3.418	
Cluster 3.8 (30) joins	3.4 (29) and	17	75%	63	68	30	3.798	
Cluster 3.2 (31) joins	12 and	3.8 (30)	75%	35	64	26	3.194	
Cluster 1.6 (32) joins	3.2 (31) and	5	50%	19	58	33	1.563	
Cluster 0.0 (33) joins	1.6 (32) and	10	33%	33	55	0	0.000	
Goodness of fit correlation (cophenetic correlation) 0.831								
							mean z-score	2.388

Principal component analysis

FLEXIGRID v5.1 June 1990. FPCA analysis

Data transformation: 1): Correlate CONSTRUCTS (standardize CONSTRUCTS): MOST COMMON
angular construct distances and normed element distances

a) Maximal nr. of components = 3

b) Minimum relative variance of a component (1 recommended by Kaiser) 0

if b) gives K components then nr. of components will be: $M = \min(3, K)$

Maximal nr. of components for VARIMAX = 3

PLOT and/or TARGET from UNROTATED matrices

PLOT and/or TARGET from ROTATED matrices

FLEXIGRID v5.1 June 1990 Time: 03-24-1994 14:41:56

TARGET - rotated results 1 jehad picked as an IDEAL

Definition of ELEMENTS: TYPICAL * sharifa

IDEAL + jehad

WORST # wijdan

TABLE15: GRADUATE STUDENT'S TARGET ANALYSIS

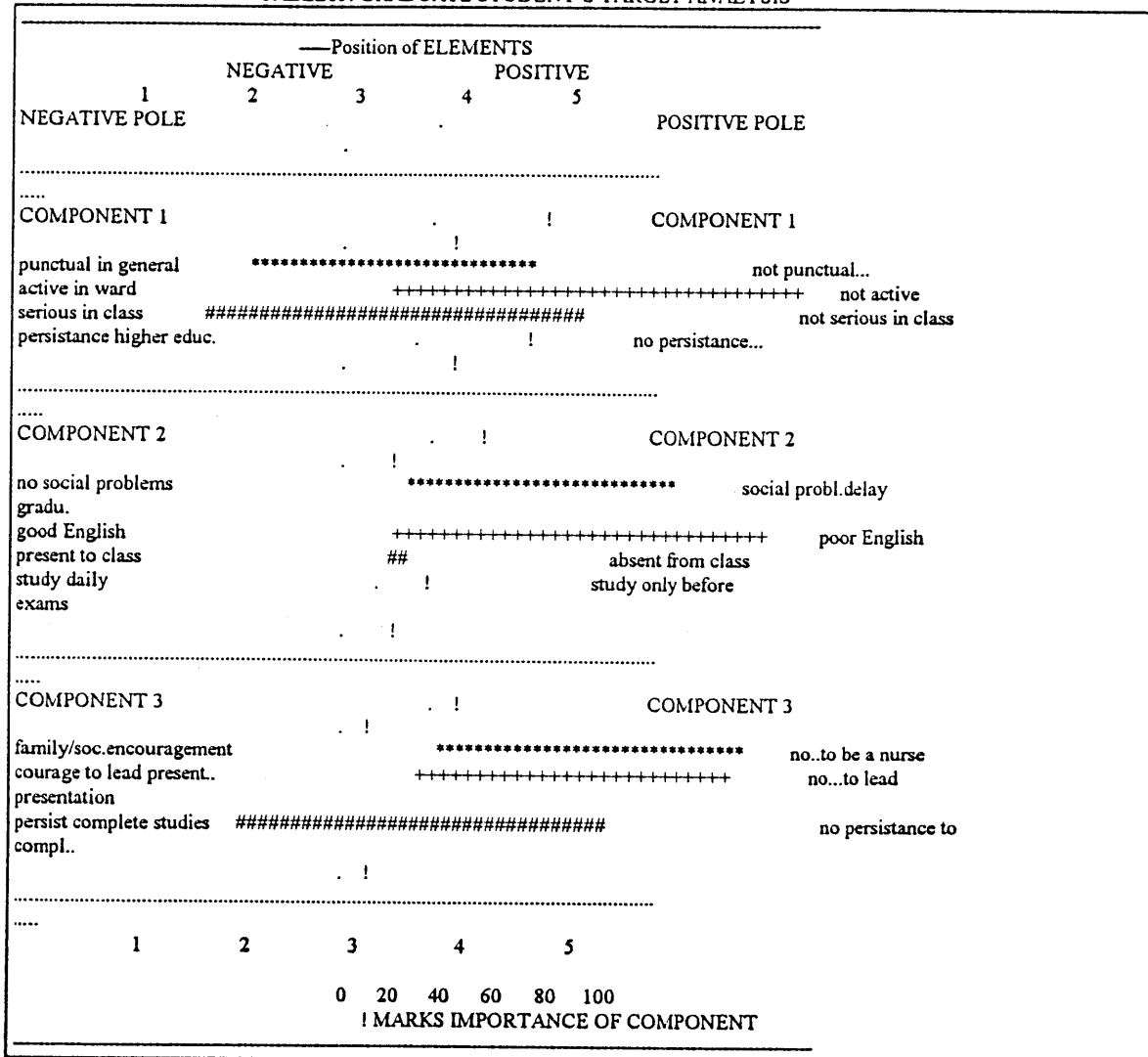


TABLE 16: GRADUATE STUDENT'S PRINCIPAL COMPONENT ANALYSIS



[illegible]

Tutor's grid analysis

Grid data

FLEXIGRID v5.1 June 1990. GRID title: t2marsaleh

TABLE 17: TUTOR'S GRID DATA

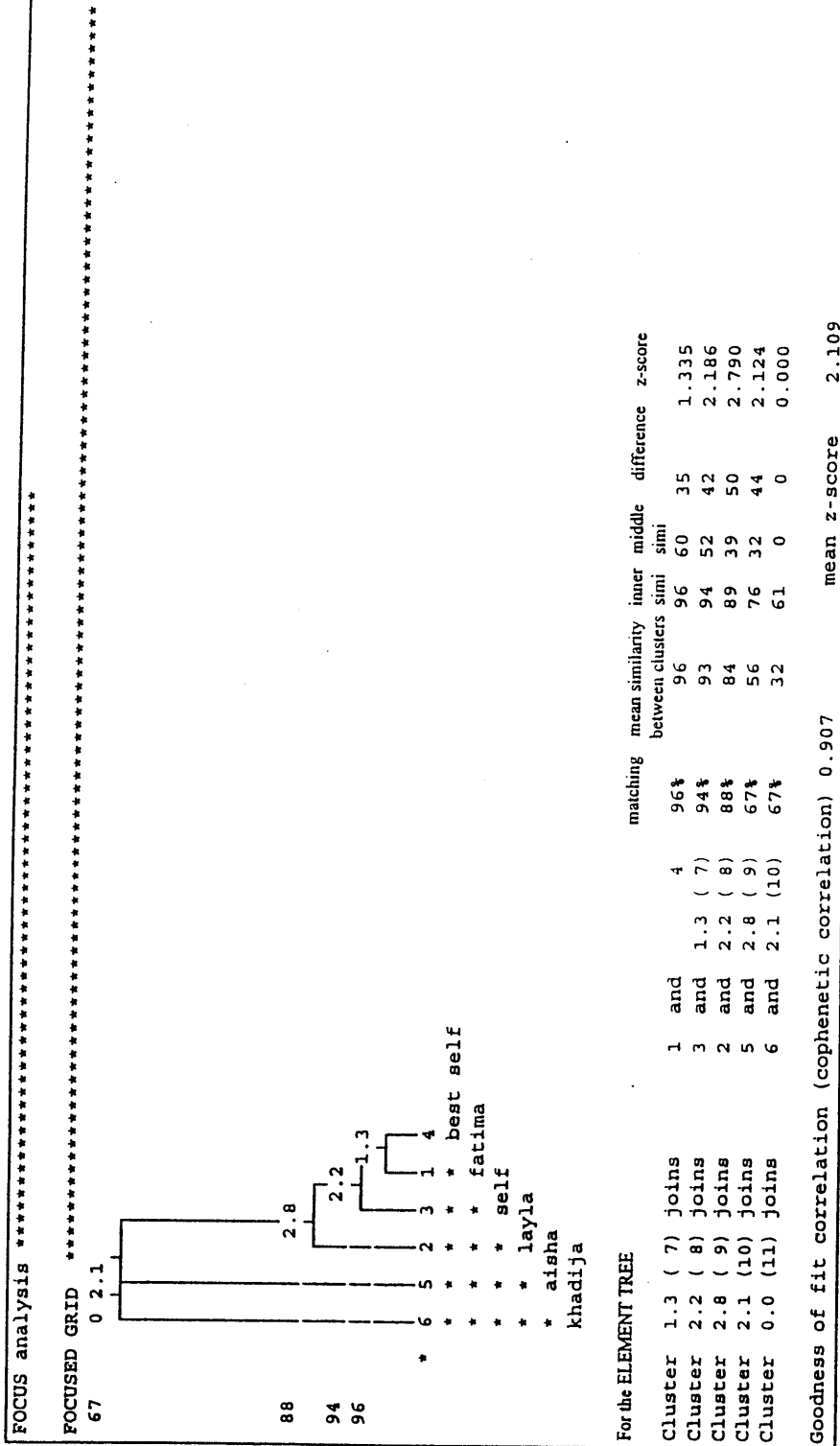
POLE	CONTRAST	1	2	3	4	5	6
punctual to college	not punctual... 1	5	4	4	5	4	2
be on time for session	late to class session 2	5	5	5	5	5	4
attend 1st part of lesson	miss 1st part of lesson 3	5	5	5	5	5	4
come prepared to class	don't prepare 4	5	4	4	5	2	1
question to clear doubts	no basis for questions 5	5	4	4	5	2	1
participate in class	passive 6	5	4	5	5	2	1
take lect.notes	don't take lect.notes 7	5	4	5	5	3	1
pay attention in class	think of outside issues 8	5	5	5	5	2	1
go libr.to enrich knowl.	stick only to one book 9	4	4	4	5	3	1
refer teacher to clarify	refer to student 10	5	3	4	5	2	1
get correct information	get poor information 11	5	3	4	5	2	1
depend on self to learn	depend on others to learn 12	4	5	4	5	3	1
share know.with others	no sharing or involvement 13	5	4	4	5	3	1
optimistic	pessimistic 14	5	4	4	5	4	1
know if study will pass	don't know why not pass 15	4	4	5	5	3	2
blame self	blame others & teacher 16	4	4	4	4	2	1
systematic thinker	haphazard thinker 17	5	4	5	5	3	2
give related answers	..not related to material 18	4	4	4	5	3	2
reasoning before actin	no reasoning before .. 19	5	4	5	5	3	1
cheerful	hardly smiling 20	5	5	5	5	4	3
professional appearance	no professional ... 21	5	5	5	5	4	3
prepared for clin.session	not prepared..... 22	5	5	5	5	3	2
tidy	untidy in dress 23	5	4	5	5	4	3
concentrate in class & clinical	distract others by laughing 24	4	4	4	5	3	2
allow others to concent.	laugh and throw comments 25	4	4	4	5	3	2
report in case of trouble	don't report 26	5	4	5	5	2	1
sence of responsibility	no sence.... 27	5	4	5	5	2	1
look for high grades	passing is enough 28	5	4	5	5	2	1
joined GNG with interest	had no other choice 29	5	4	5	5	3	1
applied intending to join	applied to fit anyware 30	5	4	5	5	3	1
talk positively about GNG	highlight bad issues 31	5	5	5	5	2	1
confident doing procedure	not confident 32	5	4	5	5	3	1
practice well	lack practice 33	5	5	5	5	2	1
take initiative to do a procedure	reluctant and hides so as not to do the procedure 34	5	4	5	5	2	1

* * * * * khadija
 * * * * * aisha
 * * * best self
 * * self
 * layla
 fatima

Cluster analysis

FLXIGRID 5.1 June 1990. File: t2 Time: 04-08-1993 00:59:16
 Copyright (C) 1990 by Finn Tschudi. University of Oslo, NORWAY
 Grid title: m

Table 18.A : Tutor's element tree



Matching levels for CONSTRUCT TREE

[illegible]

(continue) Table 18.B : Tutor's construct elicitation

attend 1st part of lesson		3	miss 1st part of lesson	
be on time for session		2	late to class session	
professional appearance		21	no professional ...	
cheerful		20	hardly smiling	
tidy		23	untidy in dress	
punctual to college		1	not punctual....	
optimistic		14	pessimistic	
confident doing procedure		32	not confident	
joined GNG with interest		29	had no other choice	
take lect.notes		7	don't take lect.notes	
reasoning before actin		19	no reasoning before ..	
applied intending to join		30	applied to fit anyone	
look for high grades		28	passing is enough	
report in case of trouble		26	don't report	
participate in class		6	passive	
sense of responsibility		27	no sense.....	
take initia.do procedure		34	reluctant/hide to do...	
talk positively about GNG		31	highlight bad issues	
pay attention in class		8	think of outside issues	
practice well		33	lack practice	
prepared for clin.session		22	not prepared.....	
systematic thinker		17	haphazard thinker	
know if study will pass		15	don't know why not pass	
concent. in class & clin.		24	distract others/laugh	
give related answers		18	...not related to material	
allow others to concent.		25	laugh and throw comments	
depend on self to learn		12	depend on others to learn	
go librr to enrich knowl.		9	stick only to one book	
share knowl.with others		13	no sharing or involvement	
question to clear doubts		5	no basis for questions	
come prepared to class		4	don't prepare	
refer teacher to clarify		10	refer to student	
get correct information		11	get poor information	
blame self		16	blame others & teacher	

Principal component analysis

FLEXIGRID v5.1 June 1990. FPCA analysis *****

Data transformation: 1): Correlate CONSTRUCTS (standardize CONSTRUCTS): MOST COMMON

a) Maximal nr. of components = 3

b) Minimum relative variance of a component (1 recommended by Kaiser) 0
if b) gives K components then nr. of components will be: $M = \text{MIN}(3, K)$

Maximal nr. of components for VARIMAX = 3

PLOT and/or TARGET from UNROTATED matrices

PLOT and/or TARGET from ROTATED matrices

FLEXIGRID v5.1 June 1990

TARGET - rotated results 1 fatima picked as an IDEAL

TABLE 19 TUTOR'S TARGET ANALYSIS

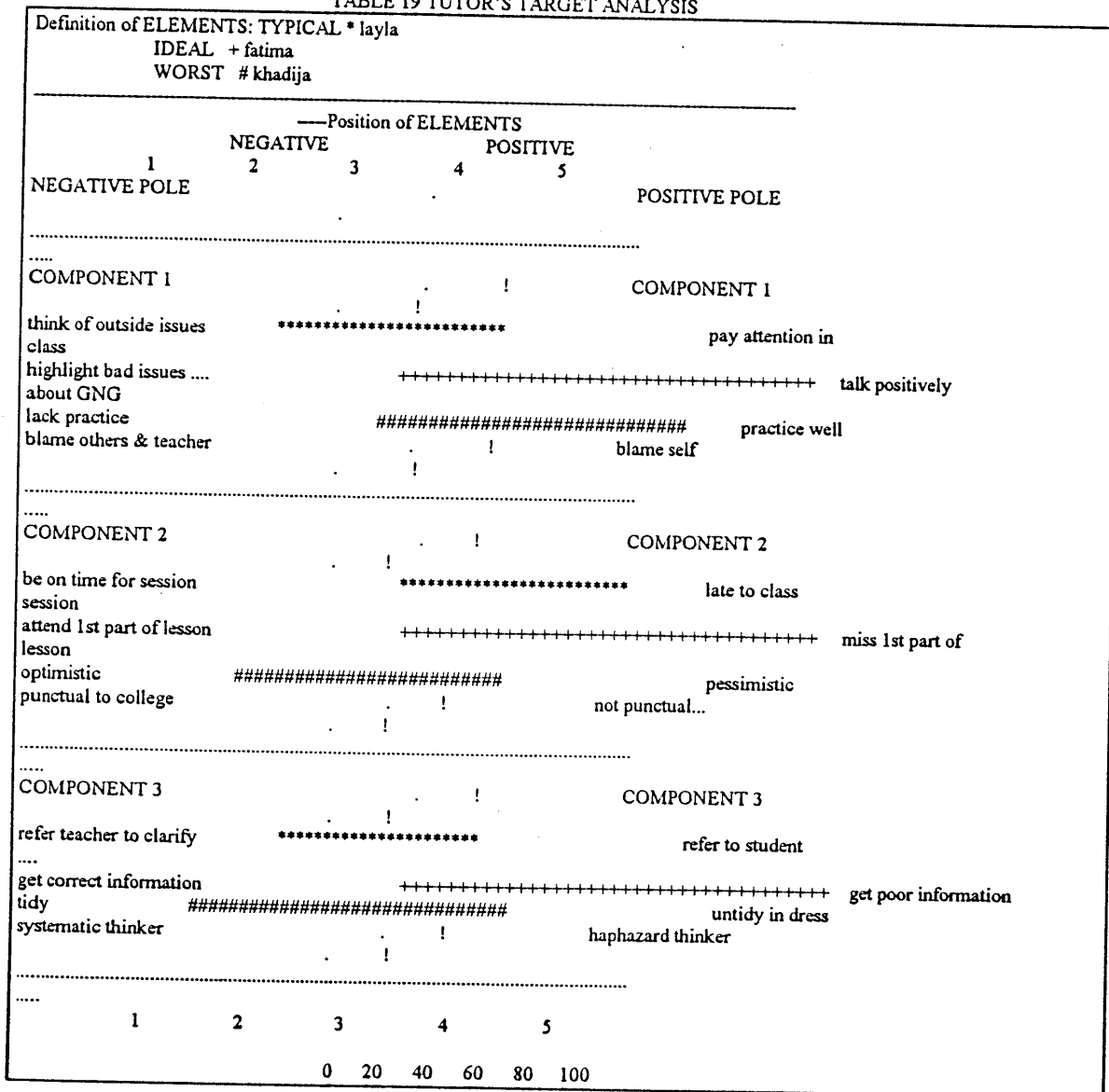


TABLE 20: TUTOR'S PRINCIPAL COMPONENT ANALYSIS

9 stick only to one book 2 late to class session 12 depend on others to learn
3 miss 1st part of lesson 13 no sharing or involvement 14 pessimistic
20 hardly smiling 1 not punctual... 21 no professional ...
23 untidy in dress 7 don't take lect.notes 10 refer to student
19 no reasoning before .. 11 get poor information 29 had no other choice
30 applied to fit anyway 32 not confident 18 ..not related to material
24 distract others/laugh 25 laugh and throw comments 16 blame others & teacher
22 not prepared..... 15 don't know why not pass 17 haphazard thinker
5 no basis for questions 4 don't prepare 31 highlight bad issues ...
8 think of outside issues 33 lack practice 26 don't report
27 no sence.... 28 passing is enough 6 passive 34 reluctant/hide to do..

COMPONENT 2

[illegible]

11 get correct information 34 take initia.do procedure 10 refer teacher to clarify
6 participate in class 23 tidy 28 look for high grades
1 punctual to college 27 sence of responsibility 14 optimistic
26 report in case of trouble 3 attend 1st part of lesson 33 practice well
2 be on time for session 8 pay attention in class 31 talk positively about GNG
4 come prepared to class 5 question to clear doubts 17 systematic thinker
15 know if study will pass 22 prepared for clin.session 16 blame self
25 allow others to concent. 24 concent. in class & clin. 18 give related answers
32 confident doing procedure 30 applied intending to join 29 joined GNG with interest
19 reasoning before actin 7 take lect.notes 21 professional appearance
20 cheerful 13 share know.with others 12 depend on self to learn 9 go libr.to enrich knowl.

●●

(CONTINUE) TABLE 20: TUTOR'S PRINCIPAL COMPONENT ANALYSIS

17 haphazard thinker 10 refer to student 6 passive 11 get poor information
 26 don't report 23 untidy in dress 27 no sence.... 1 not punctual...
 28 passing is enough 14 pessimistic 34 reluctant/hide to do.. 2 late to class session
 4 don't prepare 3 miss 1st part of lesson 5 no basis for questions 7 don't take lect.notes
 29 had no other choice 30 applied to fit anyware 32 not confident 19 no reasoning before ..
 13 no sharing or involvement 15 don't know why not pass 24 distract others/laugh
 25 laugh and throw comments 18 ..not related to material 9 stick only to one book
 8 think of outside issues 33 lack practice 31 highlight bad issues
 16 blame others & teacher 22 not prepared.... 20 hardly smiling
 21 no professional ... 12 depend on others to learn

COMPONENT 3

1011
 23 : A A fatima
 2717
 28 6 45 29
 34 2630 7 13 1
 15 25 1932 14 *
 31 18 9 D : D best self
 33 8 162021 24
 22
 C23 : C self
 12

COMPONENT 1

12
 23 F Khadija
 E31 E aisha
 252021 816
 9 1824 33 22
 14 30 15
 1 13 7 19 28
 32 29456 26
 1734 27
 B : 23 B layla
 1011

3 attend 1st part of lesson 12 depend on self to learn 2 be on time for session
 21 professional appearance 14 optimistic 20 cheerful 1 punctual to college
 22 prepared for clin.session 23 tidy 16 blame self 11 get correct information
 31 talk positively about GNG 10 refer teacher to clarify 33 practice well
 8 pay attention in class 9 go libr.to enrich knowl. 18 give related answers
 25 allow others to concent. 24 concent. in class & clin. 15 know if study will pass
 13 share know.with others 19 reasoning before actin
 32 confident doing procedure 30 applied intending to join 29 joined GNG with interest
 7 take lect.notes 5 question to clear doubts 4 come prepared to class
 34 take initia.do procedure 28 look for high grades 27 sence of responsibility
 26 report in case of trouble 6 participate in class 17 systematic thinker

**

10 refer to student 7 don't take lect.notes
11 get poor information 19 no reasoning before ..
23 untidy in dress 29 had no other choice
17 haphazard thinker 30 applied to fit anyware
6 passive 32 not confident
26 don't report 1 not punctual...
27 no sence.... 13 no sharing or involvement
28 passing is enough 14 pessimistic
34 reluctant/hide to do.. 18 ..not related to material
5 no basis for questions 24 distract others/laugh
4 don't prepare 25 laugh and throw comments
15 don't know why not pass 9 stick only to one book
31 highlight bad issues 21 no professional ...
33 lack practice 20 hardly smiling
8 think of outside issues 3 miss 1st part of lesson
16 blame others & teacher 2 late to class session
22 not prepared..... 12 depend on others to learn

COMPONENT 3

1011
A 23 A fatima
34 17
276 45 29
28 26 307 13 1
15 32 19 14
D 33 251824 9 D best self
8 1622 2021
31
C 23 C self
12

COMPONENT 2

12
23 F
2021 1622831
9 1824 33
14 32 25 15
1 13 719 34 28
30 29 45626
17 27
23 B
1011
F khadija
E aisha
B layla

12 depend on self to learn 22 prepared for clin.session
2 be on time for session 16 blame self
3 attend 1st part of lesson 8 pay attention in class
20 cheerful 33 practice well
21 professional appearance 31 talk positively about GNG
9 go libr.to enrich knowl. 15 know if study will pass
25 allow others to concent. 4 come prepared to class
24 concent. in class & clin. 5 question to clear doubts
18 give related answers 34 take initia.do procedure
14 optimistic 28 look for high grades
13 share know.with others 27 sence of responsibility
1 punctual to college 26 report in case of trouble
32 confident doing procedure 6 participate in class
30 applied intending to join 17 systematic thinker
29 joined GNG with interest 23 tidy
19 reasoning before actin 11 get correct information
7 take lect.notes 10 refer teacher to clarify

..

APPENDIX C

FACTOR ANALYSIS

Piloting the Preliminary Tailored Instrument (exploratory factor analysis)

Data collected from this instrument were entered in the Data Entry module of the SPSS programme for analysis. Data were analysed using the Statistical Package for Social Sciences (SPSS/PC version 4). Factor analysis programme was chosen to group the items on the instrument because of its properties in scale building (Oppenheim 1992, p.201). Missing cases were replaced by (9), and negatively stated variables were recoded as (5=1) (4=2) (2=4) and (1=5). Principal component analysis was conducted on each of the nine groups identified earlier, which are:- (1) Interest in nursing (2) Interest in performing a skill (3) Goal setting (4) Study habits (5) Student characteristics (6) Nurse characteristics (7) Attendance (8) Academic and English ability (9) Curriculum and image. The Principal Components analysis was the major method of extraction, using squared Multiple Correlations as communality estimates. Varimax rotation was used to reduce independent factors from the large number of related variables (Child 1990, p.48).

1) Factor analysis of group one ' Interest in Nursing'

Seventeen questions in this group were subjected to factor analysis and varimax rotation. Considering that the average correlation between the items as 0.1, the number of subjects needed for this factor analysis was computed on the basis of six times as many subjects as variables (Child 1990, p. 37), hence $17 \times 6 = 102$. The number of cases available for this analysis was 135 which far exceeds the required number. Using the rotated factor matrix of the final statistics table, there were 6 factors with eigenvalues greater than 1.0 explaining 62% of the total variance. A factor loading as low as .255 for factor I and 0.36 for factor VI would have been reasonable loading for factor I to VI at the 1% level of significance (Child 1990, p. 112). In order to increase the robustness of criteria, the researcher chose item loadings/correlations of 0.5 and above for each of the factors loadings .

The first four factors were considered which explain 49.3% of the total variance. Factors V and VI had only one high loading for each and hence were not considered. The four factors emerging for this group were:-

(a) Expressive and Active Interest in Nursing variables explaining the reasons for joining nursing were:

v5	I like the responsibility of a nurse,
v17	I will encourage all my friends to join nursing,
v88	Nursing students and graduates are pleased to see their brothers and sisters join nursing,
v89	I believe that neighbours and friends encourage their children to join nursing).

The internal consistency of this scale as measured by alpha coefficient was 0.732.

(b) Benefits Interest in Nursing variables explaining the reasons for joining nursing were:

v1	I like the nursing uniform
v20	I will receive a monthly stipend
v4	Nursing jobs are guaranteed
v21	My outside appearance is important for me
v90	I believe if nursing conditions and salaries are improved, more neighbours and friends will encourage their children to join nursing.

The internal consistency of this sub-scale was $\alpha = 0.675$.

(c) Interest to grow and Develop through Nursing variables explaining the reasons for joining nursing were:

v8	Nursing allows the opportunity for further education
v9	Medium of instruction and learning is English

The internal consistency of this sub-scale was 0.582.

(d) Value Interest in Nursing variables explaining the reasons for joining nursing were:

v6	I want to serve my country
v7	Nursing is a humanistic job that Islam has encouraged

The internal consistency of this sub-scale was 0.533.

As described earlier, the four sub-scales comprising the remaining meaningful 13 variables detailed above (1, 2, 4, 5, 6, 7, 8, 9, 17, 21, 88, 89, 90) comprise the 'interest in nursing'. The internal consistency of this scale was $\alpha = 0.729$.

2) Factor analysis of group two 'Interest in performing a skill'

Twenty seven questions pertaining to this group were subjected to factor analysis and varimax rotation. Considering that the average correlation between the items as 0.1, the number of cases needed for this factor analysis was computed on the basis of six times as many subjects as variables (Child 1990, p. 37), hence $27 \times 6 = 162$. The number of cases available for this analysis was less than this number, but knowing that correlations between the variables are roughly 0.2; as exhibited by the correlation matrix; the researcher continued with the analysis. Using the rotated factor matrix of the final statistics table, 11 factors emerged with eigenvalues greater than 1.0 and explaining 67.4% of the total variance. A factor loading as low as .255 for factor I and 0.343 for factor XI would have been a reasonable loading for factors I to XI at the 1% level of significance. In order to increase the robustness of criteria, the researcher chose item loadings of 0.5 and above for each of the factors. The first five factors were considered which explained 39.5% of the total variance. Factors VI to X had only one high loading variable for each factor and hence were not considered in this sub-scale. The five sub-scales emerging under the five factors for the skill scale were:

(a) Skill Orientation variables pertaining to skill orientation were:

v13	I feel bored when I am asked to do a scientific skill -bearing a negative correlation/loading
v82	I like doing jobs that use manual skills
v84	I have the capability to complete a manual skill after practising it once only.

(a) Commitment/Persistence variables pertaining to being committed were:

v74	One of my strongest points is my ability to remember things
v137	I study regularly and on daily basis
v139	I make outside readings on the lesson subject
v141	I study my lessons every day

Item (v137) was a repetition of item (v141) and hence was deleted from the internal consistency check. The internal consistency of items (v74), (v137), and (v139) as measured by alpha coefficient was 0.570.

(b) Persistence variables pertaining to situations when disturbance increases were:

v129	I feel depressed and leave studying
v130	I give myself a brake and resume studying
v140	I feel sleepy when I sit to study

The internal consistency of this sub-scale was 0.623.

(c) Note Taking variables were:

v95	Writing brief notes on the sides of a text book is not important- negatively loaded
v97	Summarising the important parts of text helps the student to understand the lesson
v150	I take notes of everything the teacher says in class

The internal consistency alpha was = 0.112. Owing to this poor alpha value (0.112), this sub-scale was dropped from the final scale of study habits.

(d) Achievement Behaviour variables pertaining to this sub-scale were:

v142	I take short intervals of rest while studying
v151	I take notes of the information that the teacher points out as important

The internal consistency of this sub-scale was alpha = 0.302. Owing to the poor alpha value (0.302), this sub-scale was not included in the final study habits scale.

(e) Openness/Confident Participation variables pertaining to this sub-scale were:

v128	when noise increases while studying, I ask others to keep quite
v157	I am the first to come forward when the teacher asks for someone to explain the lesson in front of the class
v 158	I volunteer to participate in a charitable cause whenever I have the chance

The internal consistency of this scale as measured by alpha coefficient is 0.537. This value improved to become $\alpha = 0.683$ when only variables 82 and 83 were considered for this sub-scale.

(b) Confidence with Skills variables pertaining to skill in general were:

v102	I feel confident doing a skill even if I have not practised well
v104	I feel confident sitting for theoretical examinations even when I am not prepared for them
v105	I try my best to complete a manual skill that I have not practised well without seeking help

The internal consistency of this scale as measured by alpha coefficient is 0.613.

(c) Satisfaction and Perfection of skills variables pertaining to this sub-scale were:

v10	I will do it in a way that I will be pleased with
v12	I will do it in a way just to finish with it- negatively loaded
v103	I feel confident sitting for theoretical examinations only when I have prepared for them

The internal consistency $\alpha = 0.719$.

(d) Commitment and persistence with skill variables pertaining to this sub-scale were:

v153	I don't feel confident doing a manual skill unless I perform it on my own
v154	when I don't feel confident doing a manual skill, that becomes a motive to continue trying

The internal consistency is $\alpha = 0.465$. This sub-scale was not included in the final skill scale.

(e) Interest and Speed of Learning Skills variables pertaining to this sub-scale were:

v98	To learn any manual skill, it is enough to see someone performing it only once
v99	To master any manual skill that I have learned, it is enough to practice it once only

The internal consistency of this sub-scale is $\alpha = 0.62$.

The 10 meaningful variables detailed above (82, 83, 102, 104, 105, 10, 12, 103, 98, 99) constitutes the 'interest in performing a skill' scale. The internal consistency of this scale is 0.355.

3) Factor analysis of group three ' Goal Setting'

Fourteen questions pertaining to this group were subjected to factor analysis and varimax rotation. Considering that the average correlation between the items as 0.1, the number of cases needed for this factor analysis was $n=84$ which is far less than the cases available for this analysis. Using the rotated factor matrix of the final statistics table, 5 factors emerged with eigenvalues greater than 1.0 and explaining 61.6% of the total variance. A factor loading as low as .255 for factor I and 0.328 for factor V would have been a reasonable loading for factors I to V at the 1% level of significance. In order to increase the robustness of criteria, the researcher choose item loadings of 0.5 and above for each of the factors. All five factors were considered and the five sub-scales emerging were:

(a) Realistic Academic Goals (variables pertaining to having a goal were:

v131	I Don't get the grade that I expected
v132	I don't pass in some courses despite studying,
v133	I can't concentrate while studying
v134	I can't remember the important points that I have read in the previous page
v136	I think of issues outside my studies

The internal consistency of this scale as measured by alpha coefficient is 0.737.

(b) Need for a Goals variables pertaining to this sub-scale were:

v67	I don't care as long as the grade is passing
v68	I don't care as long as there is a re-test

The internal consistency of this scale as measured by alpha coefficient is 0.744.

(c) Clarity and Persistence with Goal variables pertaining to this sub-scale were:

v36	After marriage I intend to leave nursing
v37	Marriage is not going to affect my decision about working or continuing my education in the nursing field- negatively loaded

The internal consistency alpha = - 0.814.

(d) Means to achieve a Goal variables pertaining to this sub-scale were:

v70	I believe that my strongest point lies in my ability to get a passing grade by understanding the lessons only
v71	I believe that My strongest point lies in my ability to get a passing grade by memorising the lessons only

The internal consistency was $\alpha = 0.235$. Owing to this low consistency alpha score, this sub-scale was not included in the final goals scale.

v38	While studying , a student should aim at understanding the general theme of the subject matter only
v40	While studying a student should aim only at passing the course
v41	While studying the student should aim at receiving a high mark in the course- negatively loaded

(e) Commitment to Goal variables pertaining to this sub-scale were:

The internal consistency of this sub-scale was $\alpha = 0.425$. Owing to this low consistency alpha score, this sub-scale was not included in the final goal scale.

The remaining meaningful 9 variables detailed above (131, 132, 133, 134, 136, 67, 68, 36, 37) comprised the goals scale. The internal consistency of this scale was $\alpha = 0.6396$.

4) Factor analysis of ' group four ' Study habits'

Seventeen questions pertaining to this group were subjected to factor analysis and varimax rotation. Considering that the average correlation between the items as 0.1, the number of cases needed for this factor analysis was $n=102$ which is less than the cases available for this analysis ($n=135$). Using the rotated factor matrix of the final statistics table, 6 factors emerged with eigenvalues greater than 1.0 and explaining 58.4% of the total variance. A factor loading as low as .255 for factor I and 0.360 for factor VI would have been a reasonable loading for factors I to VI at the 1% level of significance. Looking for robustness of criteria, the researcher chose item loadings of 0.5 and above for each of the factors. All six factors were considered. The six sub-scales emerging were:

The internal consistency of this sub-scale was $\alpha = 0.391$. Owing to the poor alpha score (0.391) score, this scale was dropped from the final scale of study habits.

(f) Quietness variables pertaining to this sub-scale were:

v75	I need complete quietness while studying
v127	when noise increases while studying ,I look for a more quite place

The internal consistency of this sub-scale was 0.351. This sub-scale was removed from the final study habits scale owing to the poor alpha score.

The scale pertaining to 'study habits' consists of 6 meaningful variables (74, 137, 139, 129, 130, 140) which were detailed above. The internal consistency of this scale was $\alpha = 0.566$.

5) Factor analysis of group five 'Student Characteristics'

Fifteen questions pertaining to this group were subjected to factor analysis and varimax rotation. Considering that the average correlation between the items as 0.1, the number of cases needed for this factor analysis was $n=102$ which is less than the cases available for this analysis ($n=135$). Using the rotated factor matrix of the final statistics table, 6 factors emerged with eigenvalues greater than 1.0 and explaining 58.8% of the total variance. A factor loading as low as .255 for factor I and 0.360 for factor VI would have been a reasonable loading for factors I to VI at the 1% level of significance. Looking for robustness of criteria, the researcher choose item loadings of 0.5 and above for each of the factors. All six factors were considered. The six sub-scales emerging were:

(a) Interaction in Class variables pertaining to this sub-scale:

v60	teacher can identify the intelligent student from his/her correct answers
v62	teacher can identify an intelligent student when he/she asks questions in the subject matter
v52	students should discusses every point during the lecture

The internal consistency of this scale as measured by alpha coefficient was 0.600.

(b) Alertness variables pertaining to this sub-scale were:

v53	the student's alertness in class is indicative of his/her intelligence
v54	student's calmness in class is indicative of his/her intelligence-negatively loaded
v59	teacher can identify the intelligent student from his alert look

The internal consistency of this sub-scale was 0.603.

(c) Exhibited knowledge variables pertaining to this sub-scale were:

v55	It is rather difficult to know how much information a calm student can absorb in a lecture
v120	I don't allow obstacles to stop me from continuing my education

The internal consistency of this scale is $\alpha = 0.351$. Owing to poor alpha value (0.351), this sub-scale was dropped from the final scale of student characteristics.

(d) Drawn Behaviour variables pertaining to this sub-scale were:

v50	I hesitate to answer teacher's questions because I feel shy
v93	when I don't share in class the reasons is that I have not studied the lesson
v119	family and other problems that I encounter effect my level of performance

The internal consistency of this sub-scale was $\alpha = -0.114$. This sub-scale was not included in the final student characteristics scale owing to the poor alpha value (-0.114).

(e) Stamina and Willingness to Read variables pertaining to this sub-scale were:

v30	If I manage to get one day off, I would read a good book rather than going out on a trip
v31	when alone, I use my time to read a good book -bearing a negative loading/correlation

The internal consistency of this sub-scale was $\alpha = 0.444$. This sub-scale was dropped from the final scale of student characteristics owing to the poor alpha value.

(f) Exerting Effort to Learn variables pertaining to this sub-scale were:

v49	I hesitate to answer teacher's questions because I don't know the answer
v51	I try to answer teacher's questions in class even if I am not sure of the answer.

The internal consistency of this sub-scale was $\alpha = -0.819$. Hence this sub-scale was included in the final scale of student characteristics.

The remaining meaningful 8 variables that were detailed above (49, 51, 52, 53, 54, 59, 60, 62) comprising the student characteristics scale. The internal consistency of this scale was $\alpha = 0.626$.

6) Factor analysis of group six ' Nurse Characteristics'

Twenty two questions pertaining to this group were subjected to factor analysis and varimax rotation. Considering that the average correlation between the items as 0.1, the number of cases needed for this factor analysis was $n=132$ which is almost equal to the cases available for this analysis ($n=135$). Using the rotated factor matrix of the final statistics table, 10 factors emerged with eigenvalues greater than 1.0 and explaining 73.9% of the total variance. A factor loading as low as .255 for factor I and 0.343 for factor X would have been a reasonable loading for factors I to X at the 1% level of significance. Looking for robustness of criteria, the researcher choose item loadings of 0.5 and above for each of the factors. The first seven factors were considered. Factors VIII to X had only one high loading for each and hence were not considered. The seven sub-scales emerging were:

(a) Speed and Swiftness variables pertaining to this sub-scale were:

v85	others see me as very active and quick to understand
v86	others see me as a quick performer
v87	others think that I have the ability to manage in difficult situations

The internal consistency of this sub-scale as measured by alpha coefficient was 0.735.

(b) Humanistic and Sympathetic variables pertaining to this sub-scale were:

v106	I consider myself as serious but nice
v108	I consider myself as serious but smiling,
v117	I consider myself to be sensitive because I talk with patients to relieve their pain
v118	I consider myself sensitive because I suffer for the ill
v100	a nurse should have a composite characteristics of intelligence, quick understanding, nice soul and ability to manage situations

The internal consistency of this sub-scale was 0.619.

(c) Honesty variables pertaining to this sub-scale were:

v109	I admit to any mistakes I do but don't apologise
v110	I admit to any mistakes I do but I apologise- bearing negative loading/correlation on the factor

The internal consistency alpha = 0.6991.

(d) Temper variables pertaining to this sub-scale were:

v123	I consider myself of the nervous type because I control myself when badly treated in general
v124	I consider myself of the nervous type because I control my nerves when badly treated by patients

The internal consistency of this sub-scale was alpha = 0.801.

(e) Empathy variables pertaining to this sub-scale were:

v114	I get a strange feeling when I see a saddening sight
v116	I consider myself of the sensitive type because I feel deep sorrow for the very ill

The internal consistency of this sub-scale was alpha = 0.642.

(f) Understanding variables pertaining to this sub-scale were:

v121	I consider myself of the quite type because I understand the situation when badly treated in general
v122	I consider myself of the quite type because I understand the situation when badly treated by patients

The internal consistency of this sub-scale was alpha = 0.620.

(g) Argumentative variables pertaining to this sub-scale were:

v107	I consider myself of the nice and smiling type
v126	I always demand explanations and proof of what the teacher says in class

The internal consistency of this sub-scale was $\alpha = -0.338$. Owing to poor alpha coefficient this sub-scale was not included in the nurse characteristics scale.

The total meaningful 16 variables detailed above (85, 86, 87, 106, 108, 117, 118, 100, 109, 110, 123, 124, 114, 116, 121, and 122) comprise the nurse characteristics. The internal consistency of this scale was $\alpha = 0.576$.

7) Factor analysis of group seven 'Attendance'

Seven questions pertaining to this group were subjected to factor analysis and varimax rotation. Considering that the average correlation between the items as 0.1, the number of cases needed for this factor analysis was $n=42$ which is far less than the number of cases available for this analysis ($n=135$). Using the rotated factor matrix of the final statistics table, 3 factors emerged with eigenvalues greater than 1.0 and explaining 58.9% of the total variance. A factor loading as low as .255 for factor I and 0.285 for factor III would have been a reasonable loading for factors I to III at the 1% level of significance. Looking for robustness of criteria, the researcher choose item loadings of 0.5 and above for each of the factors. Two factors were considered. The third factor had only one loading and hence was dropped. The two sub-scales emerging were:

(a) Time Perception variables pertaining to this sub-scale were:

v77	I can be late to class as long as I copy what I have missed
v144	I try to reach to class on time or before the teacher -bearing negative loading/correlation on the factor
v145	I prefer to enter class later than the teacher- negatively loaded

The internal consistency of this scale as measured by alpha coefficient was - 0.189.

Dropping variable (v145) improved the internal consistency and gave an $\alpha = -0.96$.

Hence only variables v77 and v144 will be retained for this sub-scale.

(b) Value of Attending Lectures variables pertaining to this sub-scale were:

v146	when I don't feel well I absent myself from lectures
v148	when I don't feel well I try to attend at any cost
v149	if I don't feel well I take appropriate medicines and attend the class

The internal consistency of this sub-scale was 0.443. This sub-scale was dropped from the final attendance scale owing to the poor alpha score (0.443).

Two meaningful variables (v77, and v144) detailed above were retained for the 'attendance' scale. The internal consistency of the this scale was $\alpha = -0.96$.

8) Factor analysis of group eight ' Knowledge and Ability'

Five questions pertaining to this group were subjected to factor analysis and varimax rotation. Considering that the average correlation between the items as 0.1, the number of cases needed for this factor analysis was $n=30$ which is far less than the number of cases available for this analysis ($n=135$). Using the rotated factor matrix of the final statistics table, 2 factors emerged with eigenvalues greater than 1.0 and explaining 58.8% of the total variance. A factor loading as low as .255 for factor I and 0.268 for factor II were sufficient at the 1% level of significance. Looking for robustness of criteria, the researcher chose item loadings of 0.5 and above for each of the factors. Both factors were considered. The two sub-scales emerging were:

(a) English Competency variables pertaining to this sub-scale were:

v78	I consider myself weak in English reading and writing
v79	I consider myself weak in spoken English
v80	I find it difficult to study in English

The internal consistency of this scale as measured by alpha coefficient was - 0.10. When variable 78 was dropped, alpha improved to = -0.77. Hence variables v79 and v80 were retained for this sub-scale.

(b) Text studied in English variables pertaining to this sub-scale were:

v42	To pass first year at College a student should be good at English
v81	I find studying in English easy as long as there are no difficult words

The internal consistency of this sub-scale was $\alpha = 0.08$. This sub-scale was dropped from the final attendance scale owing to the poor alpha score of (0.08)..

The remaining 2 meaningful variables (v79 and v80) comprised the 'knowledge and ability' scale. The internal consistency of this scale was $\alpha = -0.77$.

FACTOR ANALYSIS OF THE COMPILED QUESTIONNAIRE (Q3)

TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

Analysis number 1 Listwise deletion of cases with missing values								
Correlation Matrix:		V1	V10	V100	V101	V102	V103	V104
V1	1.00000							
V10	.39895	1.00000						
V100	.45830	.41069	1.00000					
V101	.46907	.30884	.36779	1.00000				
V102	.40269	.23440	.35902	.31688	1.00000			
V103	.51434	.35011	.45053	.34608	.46886	1.00000		
V104	.51593	.37276	.59794	.36317	.41043	.59503	1.00000	
V105	.42839	.30305	.30293	.37387	.37530	.41895	.42896	
V11	.36456	.21870	.22182	.21271	.23261	.25469	.27953	
V12	.43582	.35076	.45667	.29487	.28244	.45503	.49311	
V13	.35029	.26113	.26532	.24711	.18976	.25093	.31056	
V14	.28064	.22045	.27417	.22184	.22590	.20734	.32379	
V15	.32346	.25794	.38522	.28588	.34913	.30463	.35288	
V16	.54962	.39968	.40013	.35941	.42435	.42985	.45188	
V17	.47159	.37923	.39069	.31978	.32930	.37250	.40460	
V18	.52448	.36625	.41895	.39129	.41032	.46712	.51436	
V19	.39348	.28328	.36783	.30766	.32761	.37201	.34000	
V2	.47738	.27615	.33717	.32478	.36313	.35125	.35191	
V20	.45502	.33889	.39551	.32595	.37518	.36593	.38496	
V21	.37112	.22586	.31124	.29474	.33907	.37243	.36126	
V22	.39182	.29039	.37561	.29840	.32539	.32303	.37862	
V23	.34463	.27434	.31522	.25355	.22352	.32082	.34427	
V24	.46671	.25327	.41215	.26994	.35093	.40677	.46777	
V25	.44288	.35050	.48047	.29228	.39565	.49385	.54119	
V26	.40799	.32853	.48787	.27356	.32379	.34804	.49449	
V27	.32754	.17398	.31448	.27251	.27935	.18517	.30910	
V28	.34205	.22821	.38384	.29235	.31726	.28521	.36940	
V29	.36832	.32077	.36480	.26591	.36027	.31992	.36555	
V3	.39657	.32146	.39624	.30968	.27774	.36780	.42578	
V30	.45586	.29620	.47563	.29220	.31358	.39166	.47859	
V31	.41002	.29855	.43723	.32726	.30163	.39363	.46315	
V32	.41908	.28800	.45808	.32499	.33111	.45286	.51091	
V33	.36531	.33447	.40058	.25125	.30091	.39779	.42574	
V34	.47050	.36156	.54202	.32248	.30822	.42379	.50030	
V35	.43604	.40431	.43392	.35063	.35055	.31771	.41820	
V36	.42353	.38595	.41496	.27138	.33886	.33459	.40398	
V37	.54185	.37945	.43794	.34573	.40975	.42586	.43838	
V38	.46582	.30774	.39886	.36180	.36292	.35303	.38052	
V39	.43068	.34084	.47365	.35441	.33157	.42288	.48551	
V4	.28823	.28064	.33530	.25532	.26144	.25381	.34890	
V40	.40975	.29150	.38381	.30673	.36625	.39069	.34363	
V41	.38433	.18972	.25397	.24443	.26280	.33587	.32910	
V42	.43087	.27218	.34310	.30683	.32246	.40899	.42740	
V43	.51721	.32822	.34979	.47500	.33257	.37300	.35250	
V44	.50623	.38349	.41618	.46116	.33636	.45964	.49572	
V45	.50475	.35224	.47102	.32056	.37936	.44855	.52731	
V46	.44690	.32766	.39686	.32141	.36701	.46075	.49286	
V47	.40776	.28830	.38552	.27926	.33891	.36157	.37119	
V48	.44522	.37223	.40826	.27127	.30561	.42136	.38431	
V49	.51320	.42506	.55065	.37552	.33957	.44401	.51661	
V5	.38440	.31655	.40122	.27843	.29161	.34926	.41862	
V50	.42842	.24598	.41343	.28618	.35950	.45603	.47218	
V51	.46693	.35888	.47671	.37946	.37602	.45878	.55785	
V52	.34280	.23703	.31353	.34715	.30893	.33094	.35848	
V53	.34339	.24866	.30309	.29975	.33684	.30077	.30273	
V54	.40800	.23606	.40509	.31918	.42156	.38400	.41703	
V55	.44740	.36832	.43709	.35390	.35112	.45272	.45497	
V56	.47958	.37518	.45860	.37331	.35103	.42885	.49035	
V57	.42264	.36115	.51158	.35190	.35503	.43538	.50026	
V58	.39987	.30103	.41241	.30280	.34299	.35547	.38650	

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V1	V10	V100	V101	V102	V103	V104
V59	.39721	.31472	.42687	.33895	.35100	.44074	.46521
V6	.43146	.28844	.41310	.28798	.23021	.37783	.47246
V60	.48462	.30093	.51423	.39767	.37468	.45906	.56175
V61	.40611	.26664	.30291	.34571	.35029	.32504	.32529
V62	.46816	.33056	.37075	.33958	.37119	.33593	.39044
V63	.36353	.22361	.39788	.31114	.32153	.29654	.38443
V64	.51430	.33004	.43250	.42842	.38016	.43133	.46813
V65	.31363	.25362	.38420	.34378	.27173	.33598	.34749
V66	.43374	.25679	.40363	.32392	.36470	.38512	.42205
V67	.43823	.33526	.42063	.37539	.40495	.42186	.44401
V68	.43844	.37672	.35961	.36887	.33008	.39246	.42223
V69	.46289	.33205	.43160	.28370	.37424	.53143	.53922
V7	.33616	.29725	.29544	.29495	.31825	.29253	.35105
V70	.49040	.35476	.33850	.33173	.30310	.41894	.40848
V71	.42335	.28300	.41830	.27696	.36586	.46022	.46762
V72	.42385	.28210	.46629	.27840	.31751	.48338	.46981
V73	.42784	.33081	.44777	.32100	.29338	.33072	.40593
V74	.36835	.30408	.45064	.29249	.26570	.40167	.42991
V75	.43271	.40527	.42222	.33854	.35624	.38186	.40822
V76	.47389	.29168	.42527	.33892	.38004	.42757	.42333
V77	.41031	.28467	.42223	.28697	.36911	.43975	.44899
V78	.53447	.34014	.53560	.36955	.45400	.49067	.53211
V79	.32106	.28899	.37736	.30033	.33420	.32590	.35033
V8	.37183	.29368	.28166	.30980	.31260	.30144	.32483
V80	.39533	.32618	.42157	.28890	.29705	.36739	.42917
V81	.42920	.30007	.41126	.38542	.38619	.32433	.41383
V82	.41162	.23636	.24363	.37729	.36381	.36465	.31942
V83	.44646	.21241	.35590	.31468	.39621	.47102	.40370
V84	.38047	.30223	.53970	.24731	.35774	.36532	.43225
V85	.41035	.26579	.50637	.29449	.36763	.42887	.48091
V86	.38339	.22515	.31881	.36010	.32485	.28763	.33478
V87	.51085	.36869	.47256	.37461	.34803	.44667	.50483
V88	.38248	.22881	.33315	.32509	.32510	.29996	.36034
V89	.40299	.19646	.27036	.31053	.33809	.36380	.35959
V9	.46203	.41635	.53035	.30792	.37272	.48556	.57598
V90	.53214	.34096	.40682	.47038	.41790	.44155	.39345
V91	.44462	.30142	.48014	.33786	.37012	.50317	.51888
V92	.35164	.28006	.32840	.25592	.29584	.24490	.28363
V93	.34427	.23765	.34064	.27168	.23915	.24472	.39177
V94	.37435	.35363	.50026	.33449	.36011	.38182	.43690
V95	.39026	.26937	.54670	.33364	.37438	.50292	.51002
V96	.32852	.29199	.32818	.25501	.31797	.37313	.33604
V97	.41785	.30650	.35550	.37543	.33615	.34704	.40863
V98	.40997	.29884	.33725	.35877	.32066	.40404	.30497
V99	.46528	.29810	.42912	.36076	.36242	.39196	.43079
	V105	V11	V12	V13	V14	V15	V16
V105	1.00000						
V11	.21877	1.00000					
V12	.33255	.27741	1.00000				
V13	.22902	.51860	.24627	1.00000			
V14	.25564	.52564	.26045	.59536	1.00000		
V15	.28911	.23198	.37946	.25400	.38661	1.00000	
V16	.42422	.33553	.37319	.33287	.32353	.31145	1.00000
V17	.29255	.33503	.37562	.25094	.24603	.25340	.46388
V18	.41142	.36042	.42699	.38497	.36361	.31612	.48240
V19	.39521	.29253	.35177	.27674	.29695	.30674	.34919
V2	.33696	.26802	.32300	.33677	.32990	.29269	.40293
V20	.42846	.39587	.32534	.36245	.33415	.26967	.41778
V21	.36756	.27098	.37220	.31165	.27769	.28329	.32603
V22	.38386	.26576	.37021	.29736	.34253	.30825	.32744
V23	.29254	.31088	.38954	.27085	.31944	.28017	.33896
V24	.34531	.20352	.44717	.27063	.21923	.25732	.37084
V25	.40505	.26171	.46923	.32709	.24411	.31800	.40392

(CONTINUE) TABLE I: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V105	V11	V12	V13	V14	V15	V16
V26	.26819	.30205	.43281	.30835	.29204	.31431	.35680
V27	.21510	.25448	.33088	.26300	.28432	.29287	.23430
V28	.25996	.27576	.37886	.28678	.30774	.35586	.33300
V29	.34374	.14461	.31288	.17318	.19428	.26378	.35193
V3	.32842	.27063	.45355	.26744	.25221	.39773	.35846
V30	.37780	.32217	.40355	.35898	.37246	.32973	.41496
V31	.35853	.31201	.38959	.30757	.35393	.34336	.40582
V32	.34092	.27253	.43734	.28479	.28829	.33024	.35442
V33	.36009	.22713	.41529	.30654	.23747	.28073	.33376
V34	.38401	.23693	.50127	.30364	.27786	.32938	.42308
V35	.39579	.32580	.37352	.32227	.30324	.33506	.40032
V36	.39095	.30868	.42563	.31900	.29152	.30399	.45846
V37	.43925	.38755	.36455	.38894	.40973	.33928	.53083
V38	.38052	.32146	.43627	.30775	.32902	.36628	.45161
V39	.34169	.27554	.48114	.32785	.32290	.35976	.42110
V4	.27129	.32059	.35466	.34668	.28863	.23675	.27522
V40	.34641	.25941	.32706	.28356	.28183	.28777	.44743
V41	.29395	.30639	.33467	.36503	.29461	.20597	.29462
V42	.39248	.30529	.35545	.30542	.28128	.26331	.35353
V43	.35643	.32721	.38082	.24057	.28806	.34599	.45467
V44	.43773	.31428	.48244	.35772	.35930	.39497	.44246
V45	.39267	.30634	.47910	.31490	.28785	.34064	.44272
V46	.38420	.30555	.41609	.25267	.29128	.32389	.42623
V47	.26825	.26745	.34898	.26880	.27435	.28860	.37418
V48	.36851	.33046	.39694	.24914	.26564	.28850	.40502
V49	.38144	.35180	.49168	.34115	.30295	.35275	.44396
V5	.26487	.32974	.44232	.34211	.30379	.32411	.29006
V50	.37512	.28908	.41907	.33302	.29429	.28645	.41494
V51	.41398	.34318	.46789	.33909	.35037	.39409	.39430
V52	.37870	.17727	.30545	.28592	.26429	.31678	.31724
V53	.31793	.20347	.30159	.34781	.23970	.27065	.38171
V54	.35817	.24678	.37077	.32370	.28789	.33730	.42579
V55	.44831	.31383	.42458	.30493	.35263	.37215	.42464
V56	.45698	.28064	.45280	.28678	.32709	.34612	.42408
V57	.37385	.29291	.49793	.28780	.32429	.33423	.41025
V58	.24949	.17152	.37561	.22843	.24232	.26793	.35936
V59	.29027	.26167	.44298	.28633	.26401	.30742	.36816
V6	.27264	.31203	.47520	.29746	.25520	.26328	.33294
V60	.37968	.34003	.51427	.30217	.29124	.37981	.40789
V61	.26868	.31817	.27479	.21915	.25323	.29113	.35906
V62	.37838	.28237	.41096	.30281	.33454	.36696	.46868
V63	.33906	.28184	.35211	.29107	.33287	.31339	.31440
V64	.39724	.36154	.39801	.35109	.37867	.36583	.44376
V65	.36858	.23243	.36984	.15827	.27373	.30039	.33595
V66	.34020	.29084	.38596	.28940	.29649	.33428	.38167
V67	.39284	.25703	.35673	.26376	.30176	.32422	.42694
V68	.38783	.27557	.38167	.25482	.23252	.34712	.38834
V69	.42730	.27284	.39745	.32854	.26337	.28619	.42961
V7	.29332	.27123	.36662	.23148	.26823	.25725	.29315
V70	.37653	.22970	.38535	.26724	.29921	.34225	.42447
V71	.34900	.20075	.39282	.24238	.24165	.33385	.41729
V72	.32810	.23572	.40499	.20268	.18346	.25214	.39353
V73	.26385	.22736	.32922	.20750	.24975	.25087	.38516
V74	.28586	.28143	.36917	.22360	.29650	.23487	.36441
V75	.33625	.27576	.39018	.30083	.30586	.28819	.38501
V76	.39073	.21251	.43698	.26860	.25821	.36054	.43593
V77	.32021	.20882	.44374	.27603	.29289	.28586	.34513
V78	.37563	.24680	.47638	.25538	.29706	.35319	.44654
V79	.30512	.28323	.35936	.22640	.30961	.28364	.31803
V8	.35390	.20694	.38321	.23627	.21801	.29876	.32904
V80	.32479	.27618	.41894	.21786	.27326	.35700	.31782
V81	.43573	.28063	.33111	.32010	.35261	.36546	.37880
V82	.36211	.26135	.37116	.14968	.21608	.34773	.33021
V83	.34804	.28292	.47652	.25776	.25523	.33994	.34038
V84	.27529	.18817	.45041	.22933	.23768	.32761	.37231

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V17	V18	V19	V2	V20	V21	V22
V59	.30282	.44745	.29360	.31814	.39850	.40649	.32347
V6	.33116	.38076	.32462	.30526	.28183	.31913	.29049
V60	.43328	.47643	.38461	.38442	.41880	.41249	.38821
V61	.30947	.40190	.32390	.28219	.33683	.29627	.27490
V62	.29872	.48314	.39068	.38543	.44592	.33035	.41355
V63	.33373	.35430	.35326	.30832	.37796	.33414	.39571
V64	.37950	.48486	.40864	.41978	.48141	.39832	.45025
V65	.29039	.32667	.31625	.32149	.32312	.32276	.33990
V66	.28954	.39427	.36568	.35034	.36996	.31118	.34413
V67	.34639	.45736	.33325	.40175	.37227	.33733	.35543
V68	.40551	.39741	.35034	.27533	.32277	.32209	.30462
V69	.34029	.44976	.34224	.31453	.39706	.33013	.30819
V7	.27955	.35780	.24075	.25778	.23225	.29317	.31851
V70	.41275	.44003	.35786	.31443	.37864	.39561	.35230
V71	.33999	.39431	.32300	.27017	.35609	.28354	.33611
V72	.34494	.41137	.32049	.24367	.35252	.27932	.26503
V73	.33353	.37142	.35737	.33346	.31642	.20168	.29602
V74	.34602	.40493	.32599	.34233	.37266	.26142	.34506
V75	.31085	.44226	.34302	.38430	.37782	.26521	.33203
V76	.30185	.42985	.33223	.32348	.30070	.33122	.29959
V77	.38015	.36690	.27893	.34757	.31363	.32429	.35018
V78	.38152	.50831	.35780	.31961	.43870	.36183	.33481
V79	.27786	.36262	.32013	.23203	.33852	.21707	.29339
V8	.34551	.35715	.34905	.29412	.27029	.31866	.36458
V80	.37933	.36388	.27958	.31891	.35962	.26635	.33169
V81	.24793	.42512	.34601	.34973	.38901	.29833	.33894
V82	.28513	.37787	.33528	.35454	.34409	.30070	.23384
V83	.33764	.45106	.37363	.31387	.35273	.30950	.31887
V84	.37174	.40072	.32746	.31621	.38055	.29339	.32374
V85	.33775	.34896	.26573	.26359	.30665	.21553	.27206
V86	.29892	.36380	.25505	.24308	.36900	.25725	.26296
V87	.41003	.48771	.38662	.38719	.40279	.32216	.39418
V88	.21653	.30928	.28392	.28219	.29228	.26764	.30338
V89	.24372	.34830	.30419	.32534	.31065	.29825	.27014
V9	.38238	.42925	.38794	.32064	.35508	.36935	.36318
V90	.40680	.53711	.43480	.37235	.36625	.33848	.33544
V91	.41631	.43632	.34101	.30779	.36563	.30832	.36149
V92	.28468	.30625	.21152	.26573	.28280	.25092	.23031
V93	.23508	.32865	.29325	.26678	.25776	.26816	.27341
V94	.33343	.43061	.38554	.29746	.34333	.38720	.30704
V95	.28632	.36377	.34537	.28262	.38391	.29404	.32059
V96	.27236	.35498	.30051	.23624	.32914	.30281	.22448
V97	.34267	.39422	.33654	.29945	.37859	.33364	.40285
V98	.37294	.39556	.34245	.30109	.31168	.37219	.31287
V99	.43228	.41420	.35348	.32446	.35075	.27669	.31577
	V23	V24	V25	V26	V27	V28	V29
V23	1.00000						
V24	.32469	1.00000					
V25	.34854	.69812	1.00000				
V26	.35320	.34931	.35869	1.00000			
V27	.26491	.23163	.19064	.50114	1.00000		
V28	.30696	.31887	.30308	.44581	.52366	1.00000	
V29	.29127	.34666	.33113	.31539	.24251	.34337	1.00000
V3	.30864	.28727	.35950	.33944	.27611	.23907	.28185
V30	.38202	.40032	.45831	.39705	.34922	.35273	.33218
V31	.33675	.29274	.36225	.38071	.36293	.41490	.24735
V32	.29865	.31249	.38398	.37791	.36091	.37088	.22896
V33	.35086	.34545	.35218	.37598	.24913	.31261	.28947
V34	.36780	.39650	.44569	.46248	.27170	.38449	.33750
V35	.36364	.30097	.33241	.36615	.35799	.35222	.37955
V36	.34772	.31843	.35129	.37991	.34950	.38197	.39151
V37	.38984	.34588	.40376	.42451	.30986	.39220	.36699

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V23	V24	V25	V26	V27	V28	V29
V38	.41196	.33695	.34426	.35089	.35810	.37069	.42468
V39	.35858	.45443	.47756	.41980	.33222	.39027	.39000
V4	.24212	.25065	.29709	.33564	.25290	.38704	.21662
V40	.34747	.37204	.42492	.34709	.31448	.40298	.30770
V41	.22596	.25172	.29963	.27748	.23758	.23367	.30876
V42	.28742	.28256	.42256	.27995	.27086	.24786	.31284
V43	.34665	.30983	.30303	.31135	.24921	.39615	.34715
V44	.41428	.45731	.51598	.43604	.32692	.38683	.33971
V45	.35867	.41615	.50106	.51087	.32335	.37265	.36201
V46	.33999	.35627	.43006	.41146	.27452	.33856	.30745
V47	.33175	.36182	.37606	.44120	.27301	.32767	.37449
V48	.34394	.28983	.41356	.36956	.26627	.31218	.29955
V49	.36094	.41634	.48247	.49315	.32391	.36530	.34049
V5	.30434	.33337	.36430	.42875	.33285	.36067	.34330
V50	.27551	.45588	.50377	.38507	.28806	.31235	.35102
V51	.30861	.41488	.52934	.48291	.35926	.43955	.36159
V52	.31902	.22057	.26990	.31891	.25736	.35033	.27626
V53	.31354	.26871	.27433	.28675	.25941	.36713	.29290
V54	.29512	.34076	.37276	.28734	.25989	.35526	.35909
V55	.38204	.39826	.41402	.47443	.27402	.36163	.35564
V56	.36338	.36676	.43135	.46284	.31732	.42079	.37829
V57	.35390	.41239	.47619	.49725	.28724	.39378	.32820
V58	.25602	.31662	.32278	.34287	.30952	.30661	.27234
V59	.30077	.40467	.41096	.43280	.37166	.49029	.33442
V6	.31587	.29583	.36227	.43147	.36812	.32161	.23551
V60	.33469	.44754	.48999	.53022	.34254	.43793	.33078
V61	.23461	.27291	.29130	.30659	.21190	.32690	.35326
V62	.33964	.32770	.33015	.34032	.30439	.35890	.35143
V63	.27042	.33099	.32542	.33206	.32235	.32626	.26498
V64	.31272	.33881	.38152	.41975	.32976	.44189	.34452
V65	.33977	.21353	.29195	.34377	.26721	.34087	.32869
V66	.31179	.32453	.36704	.39071	.33889	.37067	.31541
V67	.33741	.36833	.39375	.37754	.31900	.34351	.45301
V68	.28189	.33430	.35069	.41704	.33646	.35304	.41519
V69	.26696	.46530	.53269	.35974	.22624	.31171	.34979
V7	.34277	.25621	.26237	.31405	.24398	.25852	.14401
V70	.38777	.31348	.35616	.34355	.27961	.32110	.24680
V71	.24722	.42705	.51978	.32051	.22416	.26307	.35833
V72	.27811	.43160	.48268	.31449	.19248	.29236	.29394
V73	.25605	.28291	.38386	.45721	.25579	.28619	.27500
V74	.34802	.25998	.35730	.47459	.25918	.28381	.25896
V75	.33879	.29536	.36425	.39141	.26487	.28651	.36429
V76	.31312	.39362	.44561	.28559	.27042	.32645	.32878
V77	.26898	.39157	.44374	.42196	.31708	.32042	.31227
V78	.34991	.45095	.50439	.42957	.33991	.38103	.42635
V79	.27084	.24691	.35165	.32095	.27556	.31775	.29415
V8	.47111	.28444	.29250	.32572	.26697	.30866	.24699
V80	.31783	.35591	.38213	.38560	.24024	.30382	.24535
V81	.28149	.27794	.32121	.30703	.28348	.43592	.27429
V82	.25500	.27025	.30678	.28324	.30278	.32847	.29859
V83	.34192	.40706	.42696	.29121	.23127	.31281	.30215
V84	.34955	.41171	.46470	.35250	.27870	.33855	.30029
V85	.26225	.28371	.37896	.39190	.28112	.39088	.26805
V86	.20302	.20713	.27935	.24276	.23243	.30190	.23475
V87	.38269	.42816	.45049	.40730	.24889	.31563	.40332
V88	.26058	.30935	.30430	.30388	.29496	.23589	.33021
V89	.29766	.26277	.31693	.31445	.25744	.28997	.27318
V9	.35377	.43773	.54698	.46901	.29557	.33803	.34330
V90	.34839	.39493	.41521	.36902	.30257	.34564	.34710
V91	.28646	.43640	.47168	.44689	.26592	.37357	.29866
V92	.20613	.17853	.25440	.28668	.22764	.26252	.26582
V93	.30152	.28897	.29068	.37281	.22246	.29619	.22487
V94	.33152	.38216	.41629	.47720	.33993	.42755	.34772
V95	.31568	.39693	.52375	.38102	.22007	.30990	.32702
V96	.30538	.31519	.35803	.32269	.24758	.28082	.34769

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V23	V24	V25	V26	V27	V28	V29
V97	.29328	.38207	.40305	.28096	.26645	.41550	.29236
V98	.36397	.34986	.32527	.30629	.24406	.30648	.35912
V99	.31615	.33927	.35516	.40804	.29768	.31124	.29280
	V3	V30	V31	V32	V33	V34	V35
V3	1.00000						
V30	.39230	1.00000					
V31	.38655	.44707	1.00000				
V32	.37026	.40266	.70930	1.00000			
V33	.35733	.38323	.44316	.45809	1.00000		
V34	.38452	.49461	.47221	.45421	.67890	1.00000	
V35	.36256	.41113	.41596	.40321	.48116	.46307	1.00000
V36	.31297	.43194	.40857	.38206	.46116	.48452	.65521
V37	.38845	.48108	.48467	.43268	.41520	.49405	.49371
V38	.38807	.48611	.44679	.42802	.44089	.42654	.47822
V39	.37662	.49904	.46494	.48451	.46649	.49299	.42697
V4	.28470	.31245	.34834	.31236	.29580	.32551	.31824
V40	.25368	.36333	.42482	.35979	.31479	.36142	.36013
V41	.31100	.31894	.29323	.30157	.28977	.29694	.29287
V42	.37643	.39693	.37369	.34787	.33589	.34758	.34362
V43	.31920	.43575	.40960	.35851	.30583	.38481	.38097
V44	.42963	.49917	.45838	.43908	.43600	.50915	.45616
V45	.40081	.55171	.43628	.43827	.41413	.52804	.40140
V46	.36020	.51403	.45310	.50576	.39715	.46833	.37629
V47	.27908	.43329	.28105	.31414	.23603	.35083	.25978
V48	.31757	.44364	.35034	.38194	.40925	.40829	.40008
V49	.42513	.47584	.43017	.44100	.46577	.49344	.49379
V5	.30693	.32057	.35868	.35412	.32937	.34952	.36588
V50	.36276	.34936	.30197	.30058	.35495	.46154	.34954
V51	.41402	.42749	.42783	.41287	.40782	.50256	.37753
V52	.26624	.36055	.35454	.37017	.26403	.34056	.33933
V53	.26033	.35434	.36346	.34921	.25925	.31578	.32850
V54	.34941	.39580	.34109	.32240	.33443	.39263	.37248
V55	.33585	.43541	.41492	.39936	.40172	.48479	.41444
V56	.39167	.48822	.44645	.45441	.44705	.55015	.41380
V57	.35459	.47649	.48001	.50027	.46229	.57365	.42669
V58	.35751	.40898	.38637	.33222	.34151	.41102	.38420
V59	.31792	.36773	.37705	.39698	.41112	.45884	.37292
V6	.37634	.39001	.39599	.39701	.37779	.43578	.31614
V60	.40825	.39827	.44584	.46892	.46637	.49869	.41555
V61	.28502	.33092	.30214	.21887	.22624	.31554	.32220
V62	.36334	.40715	.44010	.35028	.35466	.40300	.35740
V63	.40121	.42803	.37151	.34071	.33236	.44940	.36747
V64	.40455	.47434	.47852	.42973	.36884	.45677	.43366
V65	.32628	.36106	.39486	.38608	.33619	.39952	.39216
V66	.37796	.37796	.39133	.42881	.34037	.43061	.37493
V67	.35568	.36894	.33512	.31344	.31463	.40680	.39486
V68	.32862	.35095	.37830	.34258	.33105	.40531	.38523
V69	.33106	.37918	.36221	.40689	.35055	.49360	.32560
V7	.37103	.29924	.32609	.35889	.35462	.35097	.29892
V70	.30046	.41137	.43192	.40244	.34758	.45384	.32288
V71	.34536	.39815	.34762	.38117	.33161	.44390	.33898
V72	.27051	.38550	.36814	.38851	.30453	.42615	.27831
V73	.31530	.39915	.35494	.36026	.27703	.40598	.27525
V74	.31661	.38046	.41228	.41233	.34135	.44493	.29484
V75	.33359	.38009	.38650	.39572	.36164	.38408	.43003
V76	.36785	.34976	.38230	.37120	.31384	.37143	.35729
V77	.31553	.37057	.43562	.45629	.34148	.46026	.33992
V78	.34923	.40632	.45410	.42225	.35411	.41244	.38641
V79	.29079	.34934	.33415	.30971	.30838	.35842	.28247
V8	.36791	.33407	.32684	.32791	.31854	.32848	.33885
V80	.31216	.39101	.41129	.40764	.32716	.39236	.29540
V81	.37068	.41779	.33498	.38294	.30498	.36447	.42829

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V3	V30	V31	V32	V33	V34	V35
V82	.31739	.26414	.34263	.32894	.29508	.34311	.40642
V83	.34944	.36663	.32713	.37462	.30266	.37213	.26375
V84	.30924	.41121	.37652	.37035	.35579	.44644	.34826
V85	.29076	.42628	.44312	.44594	.31788	.40794	.28781
V86	.31832	.35509	.28493	.26250	.30324	.33669	.32496
V87	.40027	.48804	.37139	.40330	.42136	.47247	.38836
V88	.26666	.34258	.28558	.27487	.24761	.35627	.33784
V89	.24824	.28908	.28338	.28087	.22193	.26470	.27888
V9	.38881	.45719	.40065	.40992	.41936	.52430	.38264
V90	.33467	.46438	.39817	.38055	.31174	.39914	.33913
V91	.31667	.41111	.41858	.42886	.40069	.48890	.31938
V92	.27632	.21931	.32963	.29294	.17877	.25197	.26626
V93	.26072	.30429	.35902	.32110	.27870	.32726	.27936
V94	.33628	.40070	.46672	.42853	.32299	.41166	.35716
V95	.29660	.38869	.34995	.36886	.37467	.45807	.34117
V96	.27258	.35671	.31538	.33557	.29684	.35863	.33160
V97	.32322	.33602	.25202	.24176	.31692	.33037	.34010
V98	.31071	.34451	.30282	.28772	.29698	.33378	.35372
V99	.27936	.35701	.34779	.32885	.32406	.36366	.34620
	V36	V37	V38	V39	V4	V40	V41
V36	1.00000						
V37	.48203	1.00000					
V38	.46767	.54383	1.00000				
V39	.40507	.50374	.50706	1.00000			
V4	.36241	.36468	.37069	.37676	1.00000		
V40	.37163	.45648	.38623	.40825	.25411	1.00000	
V41	.30640	.35492	.35283	.28030	.27440	.26549	1.00000
V42	.34822	.42985	.40081	.35648	.31120	.34888	.61551
V43	.42321	.41834	.45160	.43638	.33530	.35973	.28408
V44	.40006	.50591	.48582	.59526	.35121	.41066	.37086
V45	.40242	.49941	.45677	.51830	.34350	.39379	.29921
V46	.36241	.45068	.41867	.44682	.34213	.35945	.29015
V47	.33431	.36181	.40361	.33093	.26237	.37702	.23303
V48	.38960	.47878	.40440	.38709	.25324	.30723	.28626
V49	.47763	.58047	.51157	.53898	.39010	.44248	.39149
V5	.38741	.35012	.39622	.44285	.51635	.27265	.25243
V50	.35418	.37498	.36970	.37648	.31490	.37356	.32355
V51	.47788	.45057	.36368	.51921	.40113	.42971	.29683
V52	.31967	.38568	.34407	.39341	.29809	.26118	.24809
V53	.36024	.38358	.36010	.40978	.32556	.32613	.19752
V54	.38449	.40025	.43305	.41922	.35727	.33316	.34612
V55	.41272	.47458	.40246	.46105	.29197	.34557	.26975
V56	.44098	.52770	.47536	.48462	.31277	.36998	.31429
V57	.43382	.46597	.40045	.52358	.29372	.42766	.29063
V58	.37585	.39548	.36639	.35028	.30953	.30059	.27250
V59	.38201	.40648	.37882	.44084	.31089	.42223	.33029
V6	.35276	.37090	.36901	.47024	.41775	.28118	.30022
V60	.42007	.44427	.40435	.53856	.34418	.41945	.30610
V61	.32442	.45443	.36005	.36588	.21510	.36057	.25918
V62	.39413	.56545	.45525	.44332	.38989	.36542	.30162
V63	.39087	.45878	.36214	.41278	.37258	.28093	.23876
V64	.37718	.55106	.46094	.46519	.36192	.39563	.33738
V65	.37112	.43927	.44800	.42118	.28680	.34035	.21214
V66	.36304	.41237	.41408	.37400	.36244	.36087	.30589
V67	.41744	.47230	.43206	.35757	.28264	.38527	.33361
V68	.38136	.47596	.40102	.39466	.28566	.33819	.30487
V69	.38593	.44881	.36974	.46639	.28232	.41418	.30137
V7	.31540	.33162	.35163	.33053	.30516	.24569	.26465
V70	.32012	.39306	.39488	.39329	.23187	.34187	.23190
V71	.34865	.37666	.32928	.43291	.23553	.36468	.28031
V72	.30036	.36825	.29251	.41759	.21891	.31988	.25468
V73	.33574	.38827	.31176	.37793	.29649	.27473	.22691
V74	.34951	.43690	.29843	.36719	.28233	.28934	.26398

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V36	V37	V38	V39	V4	V40	V41
V75	.43016	.50077	.42067	.40408	.33085	.31521	.34155
V76	.36330	.41719	.41407	.43713	.30544	.44577	.40329
V77	.35082	.40992	.35415	.37225	.30988	.31967	.28002
V78	.42402	.49173	.40992	.45326	.35045	.44595	.35803
V79	.32204	.37204	.38467	.34482	.28302	.29980	.26882
V8	.29396	.34531	.37248	.31531	.35955	.26639	.21693
V80	.31607	.39224	.36022	.38756	.25291	.32614	.23043
V81	.40385	.42649	.42618	.38765	.36841	.31343	.27385
V82	.36509	.33996	.36732	.32907	.24559	.30566	.24187
V83	.31932	.37178	.37461	.41807	.26193	.32534	.35591
V84	.36832	.40869	.40030	.44672	.26150	.41414	.28886
V85	.27633	.39995	.33413	.41626	.23930	.36471	.29481
V86	.28275	.35530	.35974	.31317	.18469	.38793	.27910
V87	.42954	.51143	.47430	.50233	.38036	.37488	.34206
V88	.23984	.32459	.38932	.34170	.17607	.36030	.21309
V89	.25594	.31657	.33169	.28351	.26319	.34813	.23200
V9	.42512	.38395	.40003	.52335	.35428	.36903	.30343
V90	.36972	.45173	.48839	.41947	.36280	.42854	.29436
V91	.31320	.42089	.34453	.41208	.30336	.34044	.31298
V92	.28285	.31621	.23559	.25409	.22076	.25549	.27532
V93	.31018	.36503	.33380	.27933	.25286	.28055	.18397
V94	.34588	.41917	.41326	.46167	.35130	.41764	.26648
V95	.34898	.37666	.34649	.45323	.27552	.37830	.27421
V96	.28174	.33621	.32966	.39559	.22055	.30080	.31268
V97	.27459	.38412	.35714	.41315	.21738	.32475	.28986
V98	.36758	.36470	.42032	.30539	.28912	.41036	.28459
V99	.35255	.35138	.38210	.37236	.27694	.35785	.24853
	V42	V43	V44	V45	V46	V47	V48
V42	1.00000						
V43	.33865	1.00000					
V44	.41565	.54288	1.00000				
V45	.44961	.43948	.62803	1.00000			
V46	.39517	.47907	.57900	.64473	1.00000		
V47	.26348	.37829	.37857	.45658	.42535	1.00000	
V48	.35125	.40928	.45275	.43285	.42649	.32453	1.00000
V49	.44934	.44529	.53596	.52741	.47731	.39833	.67200
V5	.32417	.33032	.37132	.38292	.30509	.28113	.35346
V50	.38561	.28685	.43537	.36639	.35827	.37530	.33573
V51	.38867	.46217	.55639	.53608	.48128	.42816	.46750
V52	.25426	.39961	.38614	.39471	.38557	.28602	.29509
V53	.27938	.36712	.37607	.42723	.36801	.31823	.27142
V54	.39788	.37494	.42756	.42060	.40080	.33410	.33177
V55	.34268	.43161	.52250	.53681	.47666	.37606	.49826
V56	.36997	.45982	.50984	.58286	.54022	.42848	.50084
V57	.31447	.40284	.49091	.59018	.51482	.45601	.47287
V58	.27892	.34242	.36123	.39943	.39213	.27362	.35127
V59	.34926	.35998	.44494	.47657	.39599	.44559	.36554
V6	.34412	.34192	.43498	.34574	.37294	.28559	.39189
V60	.36066	.40082	.52717	.55542	.47129	.39378	.40125
V61	.32303	.40065	.32141	.33878	.31209	.36623	.23646
V62	.36151	.37795	.42484	.45189	.43814	.39947	.33975
V63	.35758	.39304	.37983	.44516	.41129	.35551	.32104
V64	.40737	.45073	.48247	.50768	.51384	.41795	.37016
V65	.29421	.38902	.38265	.39527	.36704	.29751	.35744
V66	.36840	.35404	.45331	.44207	.40996	.36654	.33160
V67	.37578	.41501	.44403	.40320	.38314	.36275	.38805
V68	.37458	.38866	.43993	.39537	.37572	.30639	.45908
V69	.42575	.32466	.45254	.47221	.39536	.38837	.33853
V7	.30019	.28404	.36948	.31426	.34005	.20397	.25893
V70	.28991	.40907	.50220	.47635	.43594	.24928	.38226
V71	.37496	.35298	.42723	.43484	.42731	.38259	.30009
V72	.33067	.37084	.42305	.42601	.42993	.32490	.35779
V73	.28760	.41350	.47044	.48031	.46852	.39949	.37480

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V42	V43	V44	V45	V46	V47	V48
V74	.28916	.33706	.44493	.44953	.44809	.41180	.35150
V75	.32008	.37173	.42387	.47494	.40719	.37871	.40116
V76	.42528	.36398	.42753	.41401	.31491	.34421	.33763
V77	.36395	.34229	.42147	.44573	.45206	.37160	.29928
V78	.39756	.40508	.47080	.42902	.38805	.42050	.37626
V79	.28013	.33765	.39850	.38313	.39706	.32114	.39446
V8	.29653	.34289	.39019	.35712	.32868	.24323	.35665
V80	.34540	.31151	.42253	.45002	.40664	.34946	.37561
V81	.33571	.40572	.41451	.39943	.40916	.34208	.35798
V82	.31372	.40099	.37314	.37348	.33622	.25309	.32727
V83	.32779	.42301	.43672	.42791	.43110	.37409	.34837
V84	.36067	.31811	.40368	.43355	.31408	.38141	.33273
V85	.32045	.37123	.40614	.46171	.41145	.35375	.38363
V86	.35775	.32968	.33701	.33091	.31056	.33366	.29359
V87	.40863	.46147	.49668	.55424	.48232	.40287	.44239
V88	.29874	.26899	.35924	.34395	.33967	.36596	.25335
V89	.30018	.34782	.38161	.38886	.33453	.34940	.28580
V9	.38948	.36923	.50762	.52648	.47289	.40639	.39256
V90	.35247	.52438	.50958	.49334	.46760	.41875	.41284
V91	.38419	.33202	.44212	.47291	.40665	.39146	.36561
V92	.27747	.31356	.33256	.40436	.29733	.27165	.30953
V93	.25638	.27350	.35802	.32630	.28828	.30507	.28070
V94	.31808	.36180	.44574	.47283	.40320	.36046	.34745
V95	.37787	.35142	.44838	.43926	.38099	.43449	.35786
V96	.31774	.27186	.41322	.42142	.34817	.28999	.26933
V97	.32872	.40674	.46771	.38221	.30555	.32196	.32626
V98	.33799	.37752	.38073	.42603	.34553	.42071	.38407
V99	.30860	.38809	.40071	.44726	.39542	.34238	.38844
	V49	V5	V50	V51	V52	V53	V54
V49	1.00000						
V5	.44917	1.00000					
V50	.42453	.30105	1.00000				
V51	.55137	.46638	.51065	1.00000			
V52	.35487	.29889	.30326	.37908	1.00000		
V53	.32863	.28876	.27199	.39241	.68034	1.00000	
V54	.41869	.28987	.37635	.39908	.48867	.49172	1.00000
V55	.52457	.42028	.39884	.51299	.43430	.41312	.41298
V56	.57140	.40592	.40167	.54264	.42004	.42258	.42727
V57	.57443	.36444	.39163	.54027	.37875	.38081	.40125
V58	.40858	.31173	.35528	.39358	.31718	.32376	.28807
V59	.49157	.38348	.41260	.55029	.31785	.37324	.34782
V6	.46569	.58900	.38091	.51799	.26377	.27881	.27390
V60	.53963	.39398	.47751	.59130	.36000	.35227	.38536
V61	.36299	.22618	.30090	.36398	.28504	.28914	.37315
V62	.35791	.38045	.32398	.40651	.32688	.37923	.41550
V63	.38892	.33058	.36428	.43564	.36614	.40034	.39717
V64	.47196	.39182	.32080	.53777	.38321	.38198	.46372
V65	.43667	.32977	.30886	.38683	.39397	.33878	.31152
V66	.43571	.35819	.42004	.42617	.28822	.32029	.38296
V67	.43536	.26987	.36559	.41680	.32752	.33911	.40854
V68	.51022	.38712	.37675	.46411	.28804	.26722	.31639
V69	.45937	.37861	.46765	.48520	.27843	.29242	.38188
V7	.32290	.36447	.23630	.36861	.30200	.22175	.29710
V70	.39682	.31544	.34937	.39144	.32582	.28631	.31595
V71	.38625	.35085	.39234	.49448	.27867	.24062	.36417
V72	.42647	.32447	.43684	.41511	.28063	.21031	.37577
V73	.49879	.29717	.32493	.46697	.28713	.27289	.30127
V74	.42158	.35973	.33221	.44762	.26038	.24843	.26282
V75	.48251	.34389	.30646	.42653	.39841	.34054	.35404
V76	.44271	.32328	.43220	.42497	.39938	.33652	.44629
V77	.39623	.39871	.44203	.42728	.32255	.27665	.31619
V78	.47791	.39725	.43209	.50993	.36071	.36280	.41785
V79	.47420	.29162	.25960	.41179	.30108	.28373	.34330

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V49	V5	V50	V51	V52	V53	V54
V8	.36847	.31247	.29114	.32493	.32876	.33462	.36768
V80	.46973	.31838	.31517	.40907	.34015	.29124	.35250
V81	.41965	.35453	.33136	.41807	.45335	.39166	.42891
V82	.37148	.31688	.28985	.38326	.29046	.28023	.30198
V83	.40036	.32423	.39246	.46962	.36977	.34733	.36595
V84	.44580	.38664	.34529	.42609	.25166	.28101	.37593
V85	.44983	.27784	.35028	.45652	.30656	.24450	.34442
V86	.32178	.23770	.25251	.35118	.24907	.26184	.28677
V87	.52137	.37750	.41683	.47952	.35789	.36208	.37134
V88	.34425	.26180	.27631	.29703	.31964	.30917	.35093
V89	.29715	.32028	.32773	.36636	.34301	.31435	.31783
V9	.48923	.44420	.47824	.56077	.32782	.32513	.36702
V90	.44164	.36308	.39118	.44940	.37042	.37598	.40714
V91	.44210	.36124	.39216	.48166	.32020	.29743	.38418
V92	.38246	.26454	.26879	.33641	.25381	.22572	.28911
V93	.36273	.27839	.29678	.30949	.16103	.16652	.22864
V94	.48791	.41858	.37835	.47292	.37915	.31662	.36098
V95	.48114	.33506	.45525	.47190	.29726	.28442	.37569
V96	.28843	.28951	.31720	.37941	.26804	.30276	.33624
V97	.40235	.26048	.35190	.43573	.33958	.26618	.33160
V98	.44192	.36125	.31972	.35636	.33612	.36900	.34505
V99	.41420	.34363	.38372	.43139	.34416	.34841	.36330
	V55	V56	V57	V58	V59	V6	V60
V55	1.00000						
V56	.77086	1.00000					
V57	.68490	.72551	1.00000				
V58	.38924	.39773	.42609	1.00000			
V59	.42245	.45409	.54130	.40129	1.00000		
V6	.37703	.38572	.36171	.32896	.45293	1.00000	
V60	.45944	.47697	.56858	.45765	.60796	.49565	1.00000
V61	.31707	.36126	.32113	.29455	.37281	.25314	.37018
V62	.43937	.48287	.42946	.40454	.35580	.28987	.42335
V63	.37343	.44749	.42586	.36207	.38634	.32991	.43027
V64	.48671	.54856	.52179	.38159	.44650	.37194	.47468
V65	.34261	.39767	.42501	.25320	.38643	.38844	.45832
V66	.36061	.38315	.38806	.26451	.36701	.42815	.41484
V67	.45233	.41505	.38640	.39413	.40171	.33720	.40380
V68	.44268	.45656	.43736	.39021	.40959	.43517	.47568
V69	.38847	.42627	.45344	.32858	.40848	.41746	.49095
V7	.39698	.37861	.34536	.35034	.28648	.36068	.34078
V70	.44804	.42582	.44627	.32615	.33325	.32255	.40570
V71	.33313	.40556	.43993	.31727	.36218	.35275	.44331
V72	.38858	.38079	.41076	.28425	.36481	.32054	.44100
V73	.47007	.52140	.47672	.35517	.37166	.34098	.47250
V74	.46115	.47429	.46617	.31895	.39008	.33289	.44199
V75	.43421	.46683	.40240	.46470	.35423	.33096	.42832
V76	.34086	.40165	.37102	.33912	.35978	.32599	.41099
V77	.35699	.41485	.42323	.30680	.38503	.33523	.39550
V78	.39065	.44328	.43947	.37515	.43938	.44122	.49854
V79	.40359	.43638	.42881	.23963	.34264	.25775	.34431
V8	.40225	.39308	.33426	.32471	.26279	.30050	.33841
V80	.40105	.41637	.44812	.27950	.38918	.32637	.45660
V81	.39839	.45238	.36968	.36262	.38708	.33490	.38440
V82	.37591	.39828	.34801	.22806	.34752	.31801	.36178
V83	.41858	.45961	.43384	.31764	.36805	.34086	.40342
V84	.38299	.41592	.45074	.34401	.41296	.39689	.42248
V85	.42980	.46917	.46153	.35547	.44621	.33600	.49479
V86	.34351	.41658	.34544	.25333	.33597	.21549	.33735
V87	.46513	.51045	.49387	.38789	.40691	.39744	.46585
V88	.40192	.43702	.38015	.25533	.29016	.22156	.31444
V89	.33204	.36300	.33630	.28888	.37159	.36183	.40097
V9	.45118	.47855	.50445	.40616	.47574	.52409	.61085
V90	.46177	.50068	.40806	.36701	.38137	.34600	.41219

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V55	V56	V57	V58	V59	V6	V60
V91	.36661	.41414	.43048	.29137	.40787	.40209	.51817
V92	.35361	.37419	.38377	.25630	.32426	.26126	.34573
V93	.34319	.35198	.34240	.26965	.30947	.32846	.32459
V94	.44616	.43499	.49593	.39451	.45675	.43795	.54605
V95	.37140	.41506	.44168	.26132	.39492	.34154	.44296
V96	.30906	.34839	.32506	.26355	.36951	.31445	.34401
V97	.39817	.41302	.36954	.20778	.36600	.28028	.38206
V98	.34040	.37378	.35565	.25995	.40930	.24040	.31240
V99	.45115	.43911	.40733	.32128	.36668	.37774	.47060
	V61	V62	V63	V64	V65	V66	V67
V61	1.00000						
V62	.45353	1.00000					
V63	.40750	.56560	1.00000				
V64	.48276	.64939	.48578	1.00000			
V65	.30866	.32457	.45989	.37744	1.00000		
V66	.35281	.32740	.35362	.43804	.53332	1.00000	
V67	.37191	.41261	.31727	.44397	.36469	.40308	1.00000
V68	.35457	.37627	.34000	.42742	.40455	.35565	.50038
V69	.33318	.38299	.39278	.41215	.36466	.39816	.43701
V7	.21290	.29655	.28410	.32050	.29539	.33297	.29068
V70	.23170	.37719	.29199	.40035	.31021	.41964	.36028
V71	.28351	.33102	.34249	.38630	.37205	.39511	.35143
V72	.29885	.31890	.27862	.36004	.31520	.37290	.38000
V73	.24490	.30639	.31030	.41262	.29164	.36142	.31214
V74	.26277	.31342	.33115	.37898	.31181	.34544	.28681
V75	.32882	.38323	.31286	.40980	.30965	.36339	.42092
V76	.30359	.41507	.34063	.38424	.31964	.32846	.40541
V77	.26802	.39142	.43241	.37194	.35593	.39534	.33663
V78	.35582	.44196	.41224	.46525	.38798	.40916	.46357
V79	.24860	.24754	.27457	.33665	.25887	.32349	.30725
V8	.20310	.33683	.29278	.37174	.27798	.31691	.39765
V80	.28858	.33878	.31121	.34568	.35487	.34373	.39397
V81	.33806	.30544	.39249	.41464	.42327	.46716	.35610
V82	.32785	.30101	.30330	.37311	.31836	.36267	.37173
V83	.30019	.36891	.33916	.39724	.30125	.31612	.37650
V84	.26473	.32904	.35171	.39502	.30703	.38077	.34613
V85	.30049	.27110	.34721	.41688	.38898	.35749	.33045
V86	.33747	.34954	.27518	.41338	.25226	.33829	.37875
V87	.36865	.44151	.37072	.46545	.45282	.43757	.45653
V88	.28594	.29889	.22519	.34537	.22295	.33037	.40397
V89	.31380	.34940	.28313	.37755	.26295	.37138	.32545
V9	.30803	.35719	.42587	.43426	.36994	.41651	.38731
V90	.39127	.47018	.38439	.45399	.38037	.42483	.42897
V91	.35672	.36918	.45983	.39000	.40322	.38401	.36193
V92	.25270	.26622	.29380	.35779	.32598	.40229	.31401
V93	.23369	.30829	.29510	.29690	.27144	.34150	.28837
V94	.37822	.35843	.38646	.40411	.45406	.40318	.36495
V95	.24142	.25723	.30826	.36409	.32871	.36183	.35313
V96	.33160	.33218	.28784	.36153	.31477	.40526	.36197
V97	.26927	.29271	.29543	.38334	.27601	.32636	.35716
V98	.34598	.36645	.35691	.40405	.40338	.40860	.43038
V99	.26853	.28077	.37285	.32871	.34911	.33446	.37666
	V68	V69	V7	V70	V71	V72	V73
V68	1.00000						
V69	.37901	1.00000					
V7	.34321	.27027	1.00000				
V70	.38452	.36962	.25282	1.00000			
V71	.37518	.64287	.25049	.36020	1.00000		
V72	.37412	.52749	.25606	.39497	.52903	1.00000	

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V68	V69	V7	V70	V71	V72	V73
V73	.35087	.35097	.22390	.36154	.32013	.38994	1.00000
V74	.35535	.35408	.26812	.40078	.33980	.40962	.61916
V75	.39789	.38963	.31277	.44267	.36425	.31170	.43209
V76	.41227	.46564	.35067	.37454	.40477	.37428	.24692
V77	.35832	.47797	.35402	.39463	.48289	.46855	.38217
V78	.46376	.50005	.30462	.37950	.48258	.44580	.41440
V79	.31662	.30610	.22756	.37085	.28780	.32379	.45437
V8	.35240	.23944	.41121	.29859	.19730	.26805	.26396
V80	.39248	.38876	.31579	.35612	.34805	.44339	.42717
V81	.34052	.36394	.36766	.31667	.36787	.33950	.36821
V82	.33384	.35213	.23719	.37843	.33984	.32335	.19942
V83	.32934	.42900	.30508	.33121	.40872	.38823	.30555
V84	.33812	.44519	.27920	.33330	.41907	.45187	.36227
V85	.38241	.37142	.27932	.34388	.35045	.38217	.42781
V86	.27701	.27012	.22437	.34476	.31437	.24789	.33022
V87	.39581	.44871	.32397	.42326	.44714	.42932	.41907
V88	.31200	.32280	.25605	.31367	.36016	.31055	.30582
V89	.35976	.28104	.22182	.34920	.26956	.33647	.32933
V9	.42490	.51511	.34409	.39668	.45844	.44791	.41646
V90	.39087	.38157	.32328	.43245	.35681	.40902	.38847
V91	.36723	.49668	.26495	.39461	.46674	.45869	.34787
V92	.36069	.25803	.23564	.32327	.24906	.32130	.32939
V93	.30807	.28288	.21502	.34633	.21242	.30158	.39905
V94	.42655	.38374	.35783	.30343	.36817	.34675	.39111
V95	.29417	.52898	.22435	.32085	.49804	.49485	.38038
V96	.31317	.33520	.25728	.32761	.31236	.36160	.28990
V97	.27589	.36737	.30032	.36683	.30835	.32119	.33615
V98	.37739	.35488	.24308	.32788	.32038	.30763	.26104
V99	.41120	.33221	.32681	.34910	.28843	.37574	.35684
	V74	V75	V76	V77	V78	V79	V8
V74	1.00000						
V75	.45095	1.00000					
V76	.28310	.45568	1.00000				
V77	.47393	.36948	.46601	1.00000			
V78	.40837	.42046	.46713	.50207	1.00000		
V79	.46463	.36384	.26915	.31747	.39851	1.00000	
V8	.25610	.26435	.24897	.28130	.35040	.21539	1.00000
V80	.37729	.31847	.31833	.39815	.39465	.39677	.27020
V81	.32934	.44584	.37447	.34050	.40130	.37079	.35037
V82	.21053	.27822	.38534	.30367	.41369	.25256	.24268
V83	.27494	.33955	.38758	.43737	.52044	.35810	.31270
V84	.37198	.34822	.44556	.44468	.50541	.38191	.25931
V85	.43544	.33057	.34221	.36072	.44851	.41263	.27085
V86	.30121	.31277	.33588	.29097	.33552	.39096	.21388
V87	.41572	.48159	.39859	.38320	.46037	.41443	.27387
V88	.25209	.35689	.34351	.28305	.33977	.31358	.19476
V89	.34790	.34731	.31454	.33913	.43227	.26678	.27915
V9	.42525	.38533	.39923	.39140	.48958	.34420	.32130
V90	.35708	.43949	.42279	.46165	.50753	.33467	.36509
V91	.35084	.35719	.38113	.49562	.48909	.30645	.30851
V92	.30640	.32673	.29480	.26702	.30290	.32426	.24585
V93	.37041	.26714	.25374	.31960	.29517	.30456	.28749
V94	.38625	.39399	.29817	.33929	.44884	.32179	.34603
V95	.40396	.37468	.40978	.47782	.49201	.35453	.26013
V96	.35444	.33502	.32950	.36073	.39567	.25941	.26381
V97	.24559	.29160	.35767	.30287	.34522	.34886	.27777
V98	.31993	.35776	.40970	.37269	.40678	.30325	.32001
V99	.37095	.31521	.34836	.36107	.44729	.30595	.32753

(CONTINUE) TABLE 1: CORRELATION MATRIX FOR THE PRINCIPAL COMPONENT ANALYSIS

	V80	V81	V82	V83	V84	V85	V86
V80	1.00000						
V81	.38244	1.00000					
V82	.28839	.29335	1.00000				
V83	.33722	.35169	.40470	1.00000			
V84	.39425	.38649	.27825	.45926	1.00000		
V85	.37533	.35387	.26620	.37715	.46596	1.00000	
V86	.29701	.34321	.27907	.26801	.39576	.33275	1.00000
V87	.43852	.48357	.34180	.46104	.44033	.41127	.39170
V88	.38603	.30163	.29469	.31042	.37460	.29572	.40270
V89	.36848	.31848	.34065	.32556	.30988	.33312	.38408
V9	.42024	.35953	.34511	.36683	.43068	.46512	.25586
V90	.31243	.42778	.45827	.47650	.38878	.37118	.40299
V91	.47283	.40036	.35988	.47708	.49738	.39340	.33590
V92	.38018	.31840	.33607	.24587	.30048	.36184	.26519
V93	.38085	.23880	.25726	.22652	.34616	.38002	.26959
V94	.43466	.42275	.29047	.37614	.40220	.45810	.25800
V95	.35122	.36866	.30249	.46251	.52214	.43762	.33740
V96	.27203	.30798	.37857	.37334	.33071	.34807	.31386
V97	.37091	.39624	.35889	.41334	.33932	.27138	.37873
V98	.35896	.35502	.38837	.36484	.38129	.25284	.30982
V99	.39174	.39910	.35076	.34218	.28551	.39331	.26846
	V87	V88	V89	V9	V90	V91	V92
V87	1.00000						
V88	.36741	1.00000					
V89	.33293	.43913	1.00000				
V9	.45397	.29971	.34313	1.00000			
V90	.49723	.36801	.39917	.37232	1.00000		
V91	.43823	.31323	.27482	.45703	.42142	1.00000	
V92	.35712	.21794	.34692	.31398	.30976	.28818	1.00000
V93	.35334	.26078	.33823	.31185	.31664	.31194	.29316
V94	.45589	.28381	.31649	.48190	.37567	.45181	.33040
V95	.40561	.32282	.29560	.47983	.35661	.54809	.25877
V96	.38905	.22391	.30321	.35961	.44775	.35241	.21365
V97	.45525	.32462	.26170	.29557	.40430	.37900	.30461
V98	.40920	.35476	.37721	.33204	.44324	.39438	.26515
V99	.47027	.34223	.37824	.44262	.43876	.39476	.28431
	V93	V94	V95	V96	V97	V98	V99
V93	1.00000						
V94	.38200	1.00000					
V95	.30929	.41108	1.00000				
V96	.25574	.30940	.35872	1.00000			
V97	.24463	.31810	.36491	.31191	1.00000		
V98	.25464	.34891	.35187	.37886	.34540	1.00000	
V99	.30736	.37874	.34758	.31174	.36148	.41099	1.00000

Initial Factor Method: Principal Component Method

TABLE 2: PRINCIPAL COMPONENT ANALYSIS EXTRACTION (FINAL STATISTICS)

Extraction 1 for analysis 1, Principal Components Analysis (PC)					
Final Statistics:					
Variable	Communality	* Factor	Eigenvalue	Pct of Var	Cum Pct
V1	.64754	* 1	38.85060	37.0	37.0
V10	.52413	* 2	2.66389	2.5	39.5
V100	.66749	* 3	2.19846	2.1	41.6
V101	.55188	* 4	1.92920	1.8	43.5
V102	.51186	* 5	1.69653	1.6	45.1
V103	.60513	* 6	1.65962	1.6	46.7
V104	.64631	* 7	1.53017	1.5	48.1
V105	.54378	* 8	1.48705	1.4	49.5
V11	.69591	* 9	1.43927	1.4	50.9
V12	.60262	* 10	1.37263	1.3	52.2
V13	.73662	* 11	1.32407	1.3	53.5
V14	.67556	* 12	1.24068	1.2	54.7
V15	.54736	* 13	1.21523	1.2	55.8
V16	.58948	* 14	1.19480	1.1	57.0
V17	.63211	* 15	1.17270	1.1	58.1
V18	.59256	* 16	1.12550	1.1	59.1
V19	.52303	* 17	1.08651	1.0	60.2
V2	.50865	* 18	1.04437	1.0	61.2
V20	.64291	* 19	1.02451	1.0	62.1
V21	.66411	* 20	1.00168	1.0	63.1
V22	.67127	*			
V23	.68550	*			
V24	.62854	*			
V25	.68903	*			
V26	.66568	*			
V27	.67513	*			
V28	.66546	*			
V29	.56840	*			
V3	.52749	*			
V30	.62591	*			
V31	.73992	*			
V32	.71461	*			
V33	.63453	*			
V34	.68789	*			
V35	.66627	*			
V36	.65086	*			
V37	.67316	*			
V38	.63177	*			
V39	.63979	*			
V4	.60110	*			
V40	.61439	*			
V41	.75369	*			
V42	.68153	*			
V43	.61231	*			
V44	.64670	*			
V45	.64040	*			
V46	.63055	*			
V47	.59643	*			
V48	.62652	*			
V49	.71819	*			
V5	.69069	*			
V50	.54052	*			
V51	.66654	*			
V52	.73164	*			
V53	.71507	*			
V54	.56673	*			
V55	.74574	*			
V56	.76063	*			
V57	.74360	*			

(CONTINUE)TABLE 2: PRINCIPAL COMPONENT ANALYSIS EXTRACTION (FINAL STATISTICS)

Variable	Communality	* Factor	Eigenvalue	Pct of Var	Cum Pct
V58	.55091	*			
V59	.61120	*			
V6	.67532	*			
V60	.69238	*			
V61	.59361	*			
V62	.76809	*			
V63	.65583	*			
V64	.67095	*			
V65	.70792	*			
V66	.58469	*			
V67	.54056	*			
V68	.59330	*			
V69	.65857	*			
V7	.51199	*			
V70	.58120	*			
V71	.60816	*			
V72	.55776	*			
V73	.69426	*			
V74	.71108	*			
V75	.57842	*			
V76	.57378	*			
V77	.68694	*			
V78	.62270	*			
V79	.57794	*			
V8	.59458	*			
V80	.57827	*			
V81	.62541	*			
V82	.67180	*			
V83	.63204	*			
V84	.63743	*			
V85	.61659	*			
V86	.60251	*			
V87	.58690	*			
V88	.72493	*			
V89	.66080	*			
V9	.63565	*			
V90	.66349	*			
V91	.59867	*			
V92	.55303	*			
V93	.48227	*			
V94	.62757	*			
V95	.63973	*			
V96	.44056	*			
V97	.64532	*			
V98	.62738	*			
V99	.57176	*			

TABLE 3: PRINCIPAL COMPONENT ANALYSIS EXTRACTION (VARIMAX ROTATION)

VARIMAX rotation 1 for extraction 1 in analysis 1 - Kaiser Normalization.
 VARIMAX converged in 48 iterations.
 Rotated Factor Matrix:

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
V25	.69885	.08328	.12358	.17920	.08661
V69	.68895	.19726	.07217	.10862	.05126
V71	.65117	.17227	.10729	.09864	.07077
V95	.63837	.12371	.06915	.06054	.24196
V24	.63526	.06071	.12571	.15427	-.03329
V72	.61053	.06791	.15110	.11426	.20213
V91	.58450	.03157	.12278	.09620	.11197
V103	.57942	.12372	.23946	.12984	.13011
V104	.57246	.16759	.14413	.13491	.21612
V50	.55513	.13552	.11731	.10827	.05878
V9	.53690	.15115	.09430	.24082	.17196
V77	.51301	.08280	.04398	.01769	.25447
V78	.50948	.18909	.16634	-.01175	.17672
V100	.49134	.30730	.03567	.07732	.31705
V84	.48860	.15355	-.01583	.05188	.20068
V60	.46566	.09222	.17778	.25407	.17239
V83	.45192	-.06870	.27427	.21969	.03910
V51	.45058	.11205	.23840	.32034	.18417
V76	.43252	.23903	.14261	.03133	-.05907
V12	.42291	.10008	.09977	.25219	.08711
V34	.42127	.30828	.06948	.34725	.15993
V39	.39471	.18395	.21740	.27473	.05573
V102	.36831	.19400	.20638	-.04936	.09752
V80	.35084	.04722	.03608	.23058	.20916
V87	.34967	.22313	.29365	.22499	.23635
V17	.34894	.22606	.31444	.13773	.13768
V40	.33848	.20814	.16256	.03807	.01218
V47	.33555	.05261	.06711	.15603	.32578
V18	.31028	.23406	.25656	.15387	.15322
V99	.30932	.13980	.27968	.17811	.15473
V105	.30322	.24716	.28362	.17683	.01465
V96	.29422	.04101	.25409	.04480	.14747
V36	.20587	.61300	.08310	.17024	.08676
V35	.15304	.60478	.14966	.15644	.00145
V10	.22792	.49887	.19595	.14384	.19981
V75	.20460	.41392	.12614	.11264	.36487
V37	.22933	.40464	.14492	.14764	.19490
V16	.34576	.38238	.31109	.04452	.14562
V29	.27148	.38156	.06699	.08439	.09749
V33	.28393	.36692	.04449	.33437	.03633
V38	.12858	.33521	.20930	.13305	.05355
V67	.28219	.32844	.19235	.11584	.05533
V2	.17619	.27831	.22639	-.03102	.22361
V101	.16096	.15064	.56908	.01342	.11021
V43	.15384	.16565	.55890	.18744	.17541
V90	.27039	.11864	.49938	.10269	.16883
V97	.30506	.06061	.47506	.19758	.03877
V82	.22879	.15666	.44281	.20266	-.14916
V1	.37431	.27132	.43687	.07986	.16733
V44	.34562	.09918	.41144	.28548	.20852
V70	.26375	.14732	.35591	.20339	.21595
V55	.23087	.17327	.14813	.61184	.20455
V57	.35505	.14768	.04112	.60030	.21921
V56	.23867	.18655	.15915	.59387	.25729
V48	.20124	.31777	.17535	.48097	.15052
V49	.32009	.36699	.14344	.39875	.21028
V45	.36535	.06959	.21165	.39111	.29758
V46	.29430	.03820	.27274	.36152	.31516

(CONTINUE)TABLE 3: PRINCIPAL COMPONENT ANALYSIS EXTRACTION (VARIMAX ROTATION)

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
V74	.26397	.12507	.06445	.15687	.69134
V73	.23729	.11441	.20431	.23295	.68466
V79	.17301	.14229	.15931	.25632	.43189
V85	.34456	.01806	.12471	.18562	.36450
V93	.17230	.05662	.05173	.05407	.32458
V21	.24298	.09232	.11966	.05580	-.02824
V23	.14628	.10974	.06345	.11210	.14547
V22	.19866	.14641	.06122	.16574	.18288
V20	.26184	.27968	.16973	.04754	.15476
V19	.18694	.21103	.17838	.20385	.11183
V62	.18557	.17317	.11245	.14797	.07255
V61	.19176	.13412	.23815	.04501	.03555
V64	.21174	.12113	.23957	.21897	.16922
V63	.25889	.05958	.04825	.16693	.08177
V52	.14996	.07987	.14938	.17697	.07499
V53	.13651	.10431	.10886	.16366	.04567
V54	.30171	.15171	.09677	.09686	.05881
V81	.20244	.21954	.26177	.01078	.20153
V13	.19095	.13673	.01434	.04038	.03730
V11	.08896	.07270	.19300	.13379	.06471
V14	.09917	.07618	.03922	.08348	.12041
V27	.05436	.13734	.11315	.05378	.07545
V28	.16474	.10175	.17741	.09558	.08582
V26	.27887	.15506	.01524	.22209	.35419
V59	.35907	.07779	.10764	.25826	.13284
V5	.25933	.18149	.04230	.12519	.09578
V6	.31337	.09745	.15021	.14432	.09907
V4	.13400	.16628	.08929	-.01208	.16155
V8	.09423	.09564	.16529	.11840	.07297
V7	.14065	.09381	.12481	.13968	.01999
V3	.22772	.16003	.20636	.10416	.10041
V58	.20699	.28261	.08408	.15617	.17826
V41	.19578	.10506	.06719	.07131	.08156
V42	.30008	.11698	.11191	.09528	.05779
V31	.22665	.16703	.10176	.13995	.14014
V32	.30450	.12665	.10270	.16980	.15632
V88	.23671	.13656	.09772	.17969	.06711
V89	.19353	-.06020	.18500	.03001	.21912
V86	.14321	.10711	.30616	.09005	.17667
V65	.19809	.17770	.13167	.11861	.07196
V66	.26436	.11513	.20856	-.00961	.19431
V98	.24453	.18858	.18508	.08837	.04208
V92	.12801	.07886	.11833	.18528	.23551
V68	.24896	.30500	.14729	.26674	.05238
V30	.28282	.14605	.16538	.25958	.22113
V15	.23274	.09916	.19535	.12683	-.02896
V94	.31791	.08759	.05479	.14293	.19130

(CONTINUE)TABLE 3: PRINCIPAL COMPONENT ANALYSIS EXTRACTION (VARIMAX ROTATION)

	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10
V25	.22870	.06596	.05625	.11467	-.00301
V69	.06991	.17072	.09541	.14060	-.01523
V71	.03233	.16999	.07144	.05479	-.01229
V95	.11825	-.03801	.14744	.03423	.09111
V24	.22389	.12667	.03931	.07685	.10703
V72	.07933	.04948	.05828	.04894	-.05228
V91	.06380	.14096	.09087	.13317	.16160
V103	.16162	.05942	.15053	.01522	.00839
V104	.09168	.08564	.10806	.10942	.14860
V50	.06525	.04884	.10600	.18584	.20150
V9	.13986	.10558	.07471	.02526	.13416
V77	.04096	.14043	.10171	.09155	.16668
V78	.11186	.18917	.16848	.01584	.19291
V100	.03865	.10356	.09955	.02618	.20441
V84	.10922	.10801	.03959	.01456	.12902
V60	.13786	.17259	.10027	.08862	.31558
V83	.12984	.13378	.21238	.05327	.08710
V51	.07408	.15834	.15548	.15650	.25599
V76	.02392	.13485	.22536	.04604	.07411
V12	.18125	.08776	.00641	.00777	.15671
V34	.18041	.13614	.03376	.04866	.17124
V39	.14262	.18256	.16410	.09217	.10029
V102	.12776	.19542	.27855	.00589	.20263
V80	.08054	.04732	.09263	.17367	.01985
V87	.11604	.16341	.11025	.12681	-.04401
V17	.10949	.10685	-.05442	.21193	.15154
V40	.25367	.16798	.11121	.14728	.21125
V47	.07440	.29750	.12870	.11320	.19288
V18	.22446	.22645	.21082	.20593	.14544
V99	.05721	-.05961	.22480	.14344	.20208
V105	.28043	.07539	.24796	.06543	-.08703
V96	.21423	.13577	.07444	-.00721	.10999
V36	.12448	.11612	.14912	.14095	.21087
V35	.20886	.06519	.12851	.12879	.20668
V10	.08605	.08464	.00086	.08511	-.07672
V75	.05986	.14175	.23589	.06937	.00948
V37	.20464	.37234	.13812	.26897	.03778
V16	.10987	.22156	.15222	.20720	.00798
V29	.25511	.24078	.12667	-.12926	.16634
V33	.26881	.00899	.01020	.05144	.14908
V38	.27327	.19573	.13701	.09358	.08818
V67	.13182	.21091	.14086	.04507	.14777
V2	.16472	.20856	.21549	.20770	.15922
V101	.06323	.12915	.16575	.02899	.11864
V43	.08867	.21047	.18432	.08105	.08602
V90	.11361	.23310	.17705	.06446	.08105
V97	.20661	-.01217	.10526	.17328	.16029
V82	.12039	.09355	.05631	.00764	.19945
V1	.10862	.19490	.06931	.17152	.08818
V44	.25083	.09643	.11537	.13522	.07749
V70	.27123	.03489	.03427	.11429	.02190
V55	.16286	.13408	.24031	.13277	.07664
V57	.11309	.19820	.15523	.08810	.17126
V56	.12389	.22646	.22562	.07435	.11007
V48	.10023	-.02345	.05013	.13148	.03186
V49	.05643	.04361	.07292	.15661	.10211
V45	.16578	.22806	.17676	.07700	.09664
V46	.11076	.22002	.19529	.07547	.02764

(CONTINUE)TABLE 3: PRINCIPAL COMPONENT ANALYSIS EXTRACTION (VARIMAX ROTATION)

	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10
V74	.15927	.07659	.03806	.10561	.09939
V73	.02527	.09414	.08199	.06085	.08955
V79	.08395	-.04829	.13052	.13705	.08032
V85	-.00697	.10451	.10646	-.03811	.22060
V93	.21823	.11608	-.12944	.11864	.08669
V21	.66460	.12235	.09092	.08119	.19389
V23	.64554	.02076	.10697	.14317	.03265
V22	.52324	.19807	.12759	.14871	.16249
V20	.47354	.21466	.13400	.26806	.04635
V19	.46866	.12440	.17734	.12327	.09929
V62	.18520	.70002	.13035	.13355	.03070
V61	.07227	.56894	.07723	.10848	.12060
V64	.17380	.53840	.14770	.16925	.13275
V63	.06779	.51633	.21104	.15959	.15375
V52	.11209	.05932	.74496	.06955	.08250
V53	.16210	.16364	.71967	.10449	.11461
V54	.10933	.21058	.49676	.11596	.06798
V81	.03396	.05420	.42397	.16594	.08161
V13	.11101	.05922	.19623	.73324	.09669
V11	.11624	.10628	-.03890	.71497	.07467
V14	.11770	.15461	.11693	.70426	.11305
V27	.10303	.05623	.06278	.13983	.70178
V28	.16267	.15555	.22464	.13426	.60049
V26	.17059	.09776	.02406	.14597	.48509
V59	.14053	.17337	.12073	.04394	.41845
V5	.12838	.07630	.08560	.17836	.14015
V6	.07720	.01275	-.01356	.12850	.19843
V4	.00584	.16946	.25432	.22471	.08637
V8	.33039	.07467	.23209	.02388	.07471
V7	.10316	.03637	.14879	.09879	.06079
V3	.12700	.21427	.01184	.07912	.04824
V58	.01282	.28084	.16136	-.04881	.20865
V41	.09478	.07672	.06558	.19570	.10641
V42	.09690	.14055	.07127	.15863	.00491
V31	.11772	.18371	.13339	.15222	.16599
V32	.08404	.05078	.16552	.08981	.16138
V88	.07123	.06674	.17375	.06189	.07860
V89	.17994	.11820	.18968	.08864	.10270
V86	.04739	.17906	.01432	.14354	.11034
V65	.15710	.16309	.20007	.00568	.08773
V66	.16335	.10041	.10738	.11497	.12766
V98	.19164	.12719	.17248	.05085	.08339
V92	.03249	.12407	.06968	.05913	.07383
V68	.04661	.17307	.01190	.03963	.16712
V30	.13900	.21232	.12751	.17967	.08745
V15	.08041	.19625	.08490	.15750	.17117
V94	.17826	.18443	.17850	-.00517	.22758

(CONTINUE)TABLE 3: PRINCIPAL COMPONENT ANALYSIS EXTRACTION (VARIMAX ROTATION)

	Factor 11	Factor 12	Factor 13	Factor 14	Factor 15
V25	.12252	.07389	.10644	.00257	.05940
V69	.12169	-.04789	.09574	.08026	.08487
V71	.08816	-.04194	.05692	.08793	.13470
V95	.07187	-.03389	.10356	.05631	.08657
V24	.09576	.15100	.00291	-.07122	.09889
V72	.05457	.02495	.03258	.16345	.07577
V91	.02461	.14402	.04925	.12805	.01056
V103	.05054	.07371	.20619	.16783	.02215
V104	.12742	.21666	.12751	.12854	.11003
V50	.08327	.11995	.16162	-.06961	.08879
V9	.30526	.16303	.06440	.05488	.05817
V77	.08888	.16028	.06685	.22073	.06954
V78	.17995	.06746	.13871	.14056	.07415
V100	.09261	.20195	.00692	.11013	.07977
V84	.12224	.09300	.08825	.15811	.20963
V60	.18235	.11872	.06013	.11154	.06124
V83	.12374	.08050	.18466	.06956	-.02779
V51	.27930	.02123	.09368	-.00358	.00784
V76	.11303	.15689	.26527	.15776	.21113
V12	.34222	.28066	.12232	.12178	.03258
V34	.05580	.14851	.05918	.20010	.10612
V39	.29378	.02487	.04003	.21307	.06872
V102	-.06414	.10989	.13116	.04575	.09823
V80	.01869	.24637	-.02282	.13222	.23595
V87	.15113	.11475	.13672	.00309	.13351
V17	-.11109	.30912	-.07951	.13251	-.05923
V40	-.01280	-.08973	.05417	.23556	.23635
V47	.05097	-.01132	.02544	-.13424	.22070
V18	.11588	.06495	.22032	.12924	.03258
V99	.04627	.22693	-.00620	.00830	.14311
V105	-.01484	.09918	.15507	.05938	.12968
V96	.18227	-.09621	.23042	.14386	.07680
V36	.16115	.02008	.08185	.09652	-.00032
V35	.10344	.05473	.09476	.14975	.12849
V10	.16780	.18695	-.06092	.02164	.00169
V75	.19340	.07555	.16459	.10119	.16448
V37	.02659	.07277	.15865	.19449	.02818
V16	-.02627	.11067	.04740	.13292	.07740
V29	.09927	-.06120	.18465	-.21077	.12020
V33	.08405	.13138	.15511	.25463	.06438
V38	.20718	.11267	.19631	.16693	.22957
V67	.00833	.18904	.19555	-.05250	.23193
V2	.07749	.17863	.08025	-.07572	.05833
V101	.08455	.15852	.04679	.05046	.19489
V43	.12075	.08481	.06275	.08204	-.01798
V90	.16038	.09320	.08668	.12091	.14711
V97	-.04062	.09589	.09132	-.15345	.10168
V82	.17488	-.07717	.07786	.14053	.11603
V1	.06062	.19937	.14643	.08527	.14969
V44	.17501	.14467	.15119	.12498	.09158
V70	.05189	.10175	-.02206	.31256	.17869
V55	.10403	.15671	.00747	.05274	.15614
V57	.05181	.07018	.00157	.17296	.12550
V56	.08829	.10626	.07754	.08134	.17820
V48	.09159	.12189	.18965	.07272	-.02883
V49	.18926	.11731	.21306	.06280	.03239
V45	.09731	.08178	.12850	.12878	.08902
V46	.07588	.10168	.13301	.22934	.04863

(CONTINUE)TABLE 3: PRINCIPAL COMPONENT ANALYSIS EXTRACTION (VARIMAX ROTATION)

	Factor 11	Factor 12	Factor 13	Factor 14	Factor 15
V74	.11078	.02649	.06262	.15702	.04116
V73	.10510	.06239	.02227	.02250	.09406
V79	.05358	-.04317	.15635	.06585	.11515
V85	-.00882	.09737	.17435	.27634	.06864
V93	.16937	.20022	-.02806	.16529	.26050
V21	.08165	.09022	.15151	.07353	.07852
V23	.11064	.25386	.03225	.09250	.04462
V22	-.06345	.29411	.07935	-.10687	.05007
V20	.01578	-.13482	.06383	.12321	.05758
V19	.14361	-.00860	-.00439	.08863	.09266
V62	.15765	.14786	.06339	.14836	.11492
V61	.02182	-.04665	.11658	-.02248	.11638
V64	.11463	.06872	.14111	.14069	.11671
V63	.08924	.17045	.03706	.06135	-.02989
V52	.08325	.11345	.02760	.11274	.09431
V53	.11696	.01214	.00327	.09895	.09272
V54	.01304	.15683	.22024	.00840	.10320
V81	.13307	.14212	.10559	.02501	.10597
V13	.15987	.05406	.14088	.04041	.11737
V11	.14503	.00655	.14471	.05585	-.01228
V14	.07285	.09240	.06903	.09291	.09608
V27	.13591	.12109	.08958	.14797	.14328
V28	.13377	-.00361	.02385	.11890	-.00445
V26	.16195	.18584	-.01643	.01250	.06561
V59	.18600	-.05900	.16889	.05668	.10213
V5	.65972	.09833	.00422	.03929	.07541
V6	.58736	.15779	.11933	.11547	.05909
V4	.56302	.14876	.10050	.04985	-.06064
V8	.15089	.53050	.08369	.07679	-.02916
V7	.23222	.52277	.14601	.17057	.09483
V3	.15780	.39679	.23361	.04146	.08406
V58	.14440	.31753	.12851	.15584	.09753
V41	.06588	.08378	.77371	.04599	.02754
V42	.08503	.12662	.65206	.09089	.12584
V31	.11561	.12348	.08181	.65943	.05693
V32	.11633	.14064	.11101	.63487	.03519
V88	.00361	.08896	.03190	.00835	.73075
V89	.23318	.01606	.09106	.06287	.50471
V86	-.05960	-.02482	.20346	.09704	.49860
V65	.15181	.04588	.03771	.15382	-.00054
V66	.21617	.04994	.15972	.12119	.19792
V98	.09500	.04119	.12988	-.02171	.20846
V92	.06804	.10850	.13818	.06892	.08369
V68	.18185	.19962	.14232	.06350	.13224
V30	.04897	.16726	.15356	.15566	.13948
V15	.11540	.25037	-.04986	.08712	.12235
V94	.25602	.15634	.01659	.13848	.04314

(CONTINUE)TABLE 3: PRINCIPAL COMPONENT ANALYSIS EXTRACTION (VARIMAX ROTATION)

	Factor 16	Factor 17	Factor 18	Factor 19	Factor 20
V25	-.06179	.02603	-.03074	.05633	.14794
V69	.10859	-.01599	.08705	-.00594	-.05169
V71	.16004	-.01961	.01239	.07207	-.14149
V95	.11800	.06274	-.02717	.23869	-.00067
V24	-.11001	.11004	-.09807	.02996	.11808
V72	.09271	.12055	.15938	.01974	-.01877
V91	.24604	.13007	.06549	.13968	-.03976
V103	-.01029	.03618	.14065	-.09931	-.01162
V104	.07120	-.15240	.03375	-.01994	.07391
V50	.09942	.04071	.03466	-.13825	.00141
V9	.13150	-.06926	.01896	-.08351	.11588
V77	.10789	.19347	.05773	.04057	-.36925
V78	-.02947	.18544	.16137	.10327	.02809
V100	.13864	.00294	-.02667	.19380	.18406
V84	.03320	.19434	.00421	.37964	.08097
V60	.17044	-.12890	.10333	-.10466	.20105
V83	-.07690	.23782	.06466	.25406	-.12279
V51	.07770	-.08482	.09011	.04325	.04809
V76	-.06178	.13701	.09441	.12655	-.05361
V12	.05915	.11869	.03326	.14147	-.04414
V34	.23556	-.07384	-.15784	.00447	-.12099
V39	.10174	-.01087	-.16032	.13863	.17640
V102	-.06414	.03068	.22702	.09120	-.02807
V80	.23815	.11468	.26363	.12422	.13172
V87	.21351	.10697	-.00403	.12963	.07350
V17	.05981	.25715	.03983	-.12864	.07125
V40	-.02344	.20045	.06137	.03342	.29853
V47	.08486	.31385	-.06909	.06566	.02386
V18	-.12700	.07882	.07593	.04277	.07044
V99	.16467	.21901	.12078	-.17895	.08923
V105	.14876	-.13136	.16256	.00270	-.02991
V96	.11295	.18918	.01573	.02897	-.10089
V36	.12033	.09418	-.00715	.04964	-.07415
V35	.19731	-.01962	-.02210	.06405	-.03182
V10	-.02874	.03035	.11502	.03672	.11396
V75	-.05302	.04060	.06296	.03074	-.04916
V37	.08637	.06530	.10428	.06238	.08002
V16	-.02747	.15175	.04956	-.08020	.07001
V29	.06222	.13046	.10836	.06707	-.02864
V33	.19356	-.11125	-.17992	.03475	-.07792
V38	.16605	.20746	-.11632	.16386	.06693
V67	.05134	.13789	.20118	-.00182	.03592
V2	.03577	-.07676	.14099	-.02765	-.17627
V101	.11061	-.06099	.05956	.02512	.09440
V43	.11213	.17018	.00166	.08657	.03220
V90	-.01167	.30697	-.00171	.04275	-.06470
V97	.08988	-.04463	.06226	.32302	.03699
V82	.10562	.11928	.30458	.08246	-.26170
V1	-.02062	.08318	.07758	-.09278	.01726
V44	.08866	-.01089	-.07309	.02498	.03099
V70	-.00346	.01329	.12785	-.01855	-.16041
V55	-.05836	.01966	.17002	.05371	-.01876
V57	.06578	.02258	.08605	.06853	.04633
V56	.02492	.02085	.09284	.10314	-.07551
V48	.08832	.24842	.12697	.05566	.12178
V49	.14743	.15236	.09306	.11216	.21389
V45	.13323	.10198	-.04571	-.04809	-.00330
V46	.13624	.07202	-.09919	-.07915	-.06473

(CONTINUE) TABLE 3: PRINCIPAL COMPONENT ANALYSIS EXTRACTION (VARIMAX ROTATION)

	Factor 16	Factor 17	Factor 18	Factor 19	Factor 20
V74	.06610	.04166	.08073	-.03951	-.08389
V73	.04448	-.00699	.03410	.02310	.06035
V79	.02899	.08542	.11572	.35557	.06142
V85	.13050	.02569	.15452	.12228	.25437
V93	.10996	.06098	.19511	.10792	.09335
V21	.07794	-.05391	.08468	-.05712	.02137
V23	.04441	.25544	-.01533	.08190	.04135
V22	.15055	-.03815	-.04385	.10856	-.13901
V20	.06054	-.06295	.12400	.10349	.06423
V19	.05831	.13948	-.05194	.02575	.05178
V62	-.03960	.06029	.03915	.05613	-.08904
V61	.16287	.10440	.11954	.00141	.18878
V64	.07149	-.05641	.07437	.06536	.00435
V63	.35757	.05837	-.01957	.03291	-.08808
V52	.11915	.02220	.05647	.02457	-.01301
V53	.05001	.10820	-.03038	-.03482	.03495
V54	.07640	.05151	.02557	.12635	.01588
V81	.29660	-.03930	.05074	.22615	.06929
V13	-.03323	-.02274	-.09336	-.05292	-.00598
V11	.08045	.13934	.08081	-.00789	.05022
V14	.05366	-.02947	.05412	.17689	-.04777
V27	.04777	.09011	-.01375	.04749	-.07574
V28	.04279	.01236	.08856	.22436	.08639
V26	.10098	.08082	.03522	-.09751	-.00582
V59	.11041	-.00759	.11280	-.02754	.18137
V5	.03912	.07613	.10398	.08751	-.06959
V6	.18134	-.01920	.03880	-.09680	.08454
V4	.06861	.05685	-.03943	.06999	.01097
V8	.00757	.16407	.08605	.03045	.04331
V7	.05478	-.02015	.06987	.06464	-.03572
V3	.18943	-.12478	-.02880	.12138	-.05501
V58	-.11559	-.02282	-.04086	-.10276	.12595
V41	-.00335	.04295	.06130	.02696	-.00908
V42	.12905	.03562	.04445	.00817	.03053
V31	.10077	.02064	.06760	.05662	.05649
V32	.13625	.00242	.02592	.03775	-.01668
V88	.02577	.07132	.00430	.07033	-.02134
V89	.01943	.11488	.24993	-.19547	.00054
V86	.07931	-.02697	-.00536	.23891	.04984
V65	.63815	.12839	.14889	.03656	.06343
V66	.43728	.06045	.12014	.01931	-.06418
V98	.21909	.51577	.09593	-.02149	-.02825
V92	.18531	.02737	.54842	.11281	.02343
V68	.10072	.14083	.33375	-.11099	.11203
V30	.16264	.14962	-.31349	.08413	.09248
V15	.09904	-.08936	.15180	.42202	-.04471
V94	.20475	.03457	.15138	.08804	.35249

TABLE 4: PRINCIPAL AXIS FACTORING ANALYSIS EXTRACTION (PAF) (FINAL STATISTICS)

Extraction 1 for analysis 1, Principal Axis Factoring (PAF)
Final Statistics:

Variable	Communality	* Factor	Eigenvalue	Pct of Var	Cum Pct
V1	.60916 *	1	38.40981	36.6	36.6
V10	.37652 *	2	2.23933	2.1	38.7
V100	.62291 *	3	1.75641	1.7	40.4
V101	.39981 *	4	1.50730	1.4	41.8
V102	.41467 *	5	1.26410	1.2	43.0
V103	.55947 *	6	1.21315	1.2	44.2
V104	.61553 *	7	1.09506	1.0	45.2
V105	.45372 *	8	1.04018	1.0	46.2
V11	.56849 *	9	.99371	.9	47.2
V12	.54112 *	10	.93477	.9	48.1
V13	.67114 *	11	.90235	.9	48.9
V14	.55961 *	12	.80463	.8	49.7
V15	.37005 *	13	.77074	.7	50.4
V16	.52672 *	14	.75382	.7	51.1
V17	.48154 *	15	.69592	.7	51.8
V18	.55530 *	16	.68159	.6	52.4
V19	.44654 *	17	.65732	.6	53.1
V2	.38174 *	18	.59994	.6	53.6
V20	.57595 *	19	.58860	.6	54.2
V21	.54903 *	20	.55232	.5	54.7
V22	.56972 *				
V23	.58386 *				
V24	.55880 *				
V25	.65042 *				
V26	.59106 *				
V27	.48828 *				
V28	.56918 *				
V29	.41405 *				
V3	.40616 *				
V30	.55965 *				
V31	.70625 *				
V32	.66690 *				
V33	.54573 *				
V34	.64791 *				
V35	.60197 *				
V36	.58744 *				
V37	.64020 *				
V38	.58215 *				
V39	.59620 *				
V4	.45776 *				
V40	.49755 *				
V41	.65922 *				
V42	.57403 *				
V43	.53739 *				
V44	.63858 *				
V45	.62836 *				
V46	.58593 *				
V47	.48776 *				
V48	.52326 *				
V49	.70039 *				
V5	.62631 *				
V50	.46472 *				
V51	.63256 *				
V52	.67265 *				
V53	.64827 *				

(CONTINUE)TABLE 4: PRINCIPAL AXIS FACTORING ANALYSIS EXTRACTION (PAF) (FINAL STATISTICS)

Variable	Communality * Factor	Eigenvalue	Pct of Var	Cum Pct
V54	.48720 *			
V55	.73680 *			
V56	.76959 *			
V57	.72639 *			
V58	.41862 *			
V59	.55229 *			
V6	.59549 *			
V60	.66068 *			
V61	.44308 *			
V62	.75877 *			
V63	.55796 *			
V64	.62656 *			
V65	.61792 *			
V66	.48906 *			
V67	.48422 *			
V68	.50472 *			
V69	.61233 *			
V7	.37770 *			
V70	.47795 *			
V71	.54257 *			
V72	.49332 *			
V73	.62713 *			
V74	.66681 *			
V75	.48657 *			
V76	.49145 *			
V77	.60577 *			
V78	.59137 *			
V79	.44799 *			
V8	.45412 *			
V80	.46207 *			
V81	.52924 *			
V82	.51064 *			
V83	.53669 *			
V84	.56021 *			
V85	.52391 *			
V86	.43579 *			
V87	.54881 *			
V88	.58451 *			
V89	.49201 *			
V9	.60540 *			
V90	.60582 *			
V91	.54640 *			
V92	.34517 *			
V93	.33818 *			
V94	.54397 *			
V95	.58545 *			
V96	.33675 *			
V97	.52506 *			
V98	.51572 *			
V99	.44510 *			

(CONTINUE)TABLE 5: PRINCIPAL AXIS FACTORING ANALYSIS EXTRACTION (PAF) (VARIMAX ROTATION)

Extraction 1 for analysis 1, Principal Axis Factoring (PAF)					
PAF extracted 20 factors. 13 iterations required.					
VARIMAX rotation 1 for extraction 1 in analysis 1 - Kaiser Normalization.					
VARIMAX converged in 18 iterations.					
Rotated Factor Matrix:					
	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
V25	.68724	.10602	.10597	.08148	.20504
V69	.66071	.12553	.08719	.18105	.04263
V95	.62674	.08334	.23494	.13934	.10341
V71	.61528	.14524	.10375	.16941	.02908
V24	.60387	.11924	-.01083	.06663	.21581
V72	.57015	.19763	.22493	.05751	.07407
V91	.55428	.14735	.13279	.04441	.10373
V103	.55259	.25709	.15592	.10222	.14736
V104	.54744	.08687	.22308	.15539	.10615
V9	.52045	.05857	.19943	.15536	.14441
V50	.50730	.13354	.08300	.13413	.08397
V78	.50081	.23230	.19728	.13844	.11050
V84	.49375	.04801	.20771	.13734	.12645
V77	.48690	.15476	.22643	.07806	.09322
V100	.48606	-.02048	.30971	.27063	.07577
V60	.45482	.12257	.22050	.10604	.13029
V83	.44982	.32826	.07416	-.03771	.14669
V51	.44834	.22120	.23513	.12820	.06234
V34	.42238	.05468	.17423	.36237	.19859
V12	.41901	.13578	.11744	.11146	.21600
V76	.41641	.21714	.00670	.18518	.06542
V39	.40914	.15329	.10851	.21538	.12667
V45	.37717	.20393	.30905	.10546	.16765
V87	.36224	.25475	.25824	.20567	.13465
V44	.35309	.33763	.23995	.13252	.24500
V40	.34618	.20553	.07909	.18074	.18852
V102	.34605	.25165	.10904	.13946	.11631
V47	.34496	.11886	.29159	.06077	.09326
V80	.33575	.09532	.26018	.02862	.12726
V16	.33395	.29968	.16972	.29725	.11800
V94	.32587	.04434	.21863	.07840	.16264
V18	.32000	.27657	.17895	.20348	.19826
V96	.31031	.26428	.14283	.08563	.14927
V105	.29603	.27626	.07384	.22109	.22713
V99	.29284	.26121	.19295	.10967	.12127
V67	.28353	.24601	.10147	.24489	.14761
V82	.23272	.51580	-.03453	.15305	.08733
V90	.28602	.50177	.18348	.10167	.12538
V43	.17724	.48226	.21429	.16138	.10902
V101	.17546	.40084	.14708	.12809	.08683
V1	.36178	.39961	.19528	.21619	.12862
V97	.30526	.38432	.10078	.08039	.19920
V70	.26349	.34417	.24170	.13514	.24106
V98	.26298	.30049	.08295	.15643	.20355
V2	.16869	.22056	.18470	.20913	.16294
V74	.26994	.07455	.66733	.11671	.16343
V73	.24772	.13928	.65715	.10076	.03626
V79	.21275	.17166	.41486	.12952	.08110
V85	.35373	.10314	.36454	.02602	.00926
V75	.22507	.15606	.34046	.32132	.07671
V46	.30560	.24285	.31590	.08512	.12808
V93	.19072	.09524	.29030	.05794	.17617
V92	.14482	.20707	.26509	.03937	.03725

(CONTINUE)TABLE 5: PRINCIPAL AXIS FACTORING ANALYSIS EXTRACTION (PAF) (VARIMAX ROTATION)

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
V35	.16946	.17387	.05566	.58142	.18757
V36	.21912	.15467	.12371	.56806	.11712
V33	.29630	.04289	.07323	.40554	.26287
V10	.22872	.16216	.21605	.34037	.11184
V49	.33712	.14970	.27394	.33756	.07639
V38	.16758	.22879	.08649	.33041	.26328
V29	.28238	.15895	.10376	.29812	.18726
V23	.16848	.11262	.14123	.11657	.62009
V21	.24791	.15427	-.00005	.12681	.55251
V22	.20209	.06637	.15807	.16647	.51922
V19	.21551	.19935	.14041	.22333	.37453
V20	.27512	.20074	.18779	.26469	.36315
V8	.11010	.17294	.07580	.08219	.35720
V52	.15480	.15646	.10449	.08524	.12822
V53	.15228	.13452	.06504	.11815	.14815
V54	.30034	.13374	.07449	.14909	.12452
V81	.21432	.21324	.21066	.20518	.06053
V62	.19239	.16172	.08174	.13481	.18504
V64	.22772	.23404	.19717	.12399	.15098
V63	.26070	.07338	.09400	.09972	.11029
V61	.20808	.23728	.08767	.12166	.05127
V37	.24250	.17788	.22734	.35339	.18808
V13	.18550	.00186	.03190	.13773	.10433
V11	.09623	.20734	.10677	.07132	.11729
V14	.10129	.05827	.13186	.07336	.12802
V5	.26231	.10962	.12510	.15367	.13264
V6	.31001	.12332	.13572	.10823	.09291
V4	.15003	.09188	.13884	.14907	.03901
V7	.14821	.12241	.06102	.09188	.18820
V55	.23816	.19163	.25993	.15323	.17853
V56	.25226	.19990	.30171	.19140	.13326
V57	.36927	.07192	.26503	.16306	.11742
V48	.22767	.21754	.22112	.26926	.13698
V28	.17876	.19317	.11282	.12210	.13177
V27	.07156	.13553	.09019	.14936	.12857
V59	.36775	.12797	.18047	.11045	.10401
V26	.27205	.02409	.33318	.15040	.19696
V31	.23183	.13141	.17204	.16584	.11296
V32	.30589	.12232	.17747	.14460	.09409
V41	.20650	.10669	.08932	.10487	.09774
V42	.30846	.13919	.08532	.12382	.10548
V88	.24319	.13757	.11035	.12202	.08974
V89	.20212	.25667	.23336	-.05260	.13830
V86	.18176	.25941	.20840	.12170	.04910
V65	.21179	.16068	.11451	.19055	.15320
V66	.27329	.22691	.19175	.13729	.13514
V17	.32152	.26890	.16735	.16527	.18546
V68	.24916	.21792	.14403	.21670	.08353
V58	.21768	.06616	.17715	.22928	.07847
V15	.22814	.17900	.05388	.09569	.11586
V3	.23355	.14049	.11321	.16227	.17793
V30	.30660	.10128	.21279	.19275	.17457

(CONTINUE)TABLE 5: PRINCIPAL AXIS FACTORING ANALYSIS EXTRACTION (PAF) (VARIMAX ROTATION)

	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10
V25	.06736	.06354	.12526	.10863	.12281
V69	.08610	.16350	.14709	.11455	.08738
V95	.13059	-.01142	.06080	.06435	.05847
V71	.07413	.14565	.07266	.08664	.05681
V24	.05844	.10794	.08610	.09418	.10636
V72	.05522	.05945	.05237	.07070	.08473
V91	.09297	.12308	.12669	.07658	.08610
V103	.13926	.07754	.04004	.07706	.11962
V104	.11508	.10084	.11307	.17362	.10241
V9	.10074	.09271	.04108	.30309	.14811
V50	.10736	.06075	.17130	.11591	.08406
V78	.15675	.19576	.04042	.18342	.00885
V84	.04309	.10972	.03514	.13178	.06898
V77	.09899	.13582	.09590	.13752	.02689
V100	.10726	.11858	.04027	.13866	.06104
V60	.11331	.14737	.09841	.19116	.17534
V83	.19299	.11542	.07607	.12363	.19321
V51	.15685	.14080	.16655	.26288	.24376
V34	.05587	.12556	.06786	.09186	.25033
V12	.04742	.07329	.02669	.34041	.17795
V76	.20578	.14368	.05989	.12910	.03760
V39	.18112	.16095	.11691	.24989	.15660
V45	.19303	.18618	.09715	.09447	.24361
V87	.12880	.15711	.13841	.14826	.14134
V44	.14530	.08251	.15069	.16669	.15129
V40	.10312	.16256	.15525	-.02562	.04281
V102	.21579	.19482	.03844	.01184	.02521
V47	.13881	.23004	.12896	.03426	.09743
V80	.09087	.05205	.12935	.09015	.17238
V16	.15569	.22531	.19714	.01513	.03038
V94	.17391	.14983	.02590	.24202	.12206
V18	.19705	.22621	.21076	.11478	.13336
V96	.10400	.11383	.06338	.10947	.02343
V105	.20309	.12275	.08004	.03540	.16074
V99	.19689	.00309	.12128	.12114	.13989
V67	.14394	.19605	.06996	.06291	.10125
V82	.06640	.07895	.03832	.14550	.16474
V90	.18592	.21664	.09760	.14087	.07141
V43	.20077	.17613	.10247	.11312	.10035
V101	.17138	.13880	.06401	.09314	.03794
V1	.09075	.20267	.16922	.10573	.04784
V97	.10464	.02049	.16411	-.00358	.15688
V70	.06256	.06089	.11823	.07306	.13384
V98	.17359	.11898	.07505	.08346	.06121
V2	.18911	.20469	.19057	.12348	.01921
V74	.04944	.08910	.11508	.11914	.10687
V73	.09729	.09715	.07101	.11107	.15126
V79	.11221	.00095	.13869	.05878	.19102
V85	.09771	.09446	-.00788	.03964	.16026
V75	.22233	.15178	.10062	.17035	.07840
V46	.20269	.18382	.09420	.08749	.21009
V93	-.05630	.09803	.11416	.15803	.07647
V92	.06769	.09847	.05512	.10429	.15623
V35	.13290	.08703	.14772	.11963	.10022
V36	.14970	.13115	.14980	.16836	.11221
V33	.03125	.03983	.07509	.12017	.23579
V10	.04627	.10391	.08881	.16389	.11496
V49	.08104	.04334	.15736	.21113	.30715
V38	.14890	.19189	.12350	.19488	.06177
V29	.13264	.20239	-.04521	.08010	.05242

(CONTINUE)TABLE 5: PRINCIPAL AXIS FACTORING ANALYSIS EXTRACTION (PAF) (VARIMAX ROTATION)

	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10
V23	.12112	.04201	.14940	.13342	.07900
V21	.10144	.11660	.11101	.08521	.03547
V22	.12917	.19674	.14795	.03030	.13002
V19	.17103	.13728	.14440	.12319	.14045
V20	.11173	.23650	.26715	.00308	.05888
V8	.21382	.09718	.04216	.22632	.13151
V52	.70488	.06207	.07824	.09284	.13529
V53	.67778	.15446	.12130	.09028	.11428
V54	.41391	.20374	.12090	.05789	.08495
V81	.35847	.08626	.17200	.15086	.02581
V62	.12672	.70666	.13355	.17718	.13544
V64	.14764	.48766	.18273	.12008	.18083
V63	.20892	.43186	.15617	.13075	.12378
V61	.10677	.42075	.12978	.00598	.03667
V37	.13414	.36579	.26465	.05504	.12132
V13	.19175	.06310	.70352	.14196	.02523
V11	-.02043	.09371	.63646	.13465	.09461
V14	.10523	.14071	.62582	.09127	.07753
V5	.08558	.09466	.18069	.62179	.11484
V6	.02172	.02157	.13428	.55522	.08400
V4	.22173	.17204	.21292	.46161	-.00134
V7	.13731	.06556	.09627	.28674	.14874
V55	.21998	.13301	.13654	.14840	.59908
V56	.20581	.22037	.08434	.12145	.57953
V57	.14318	.16884	.10013	.06427	.55073
V48	.06089	.01105	.12518	.13835	.34569
V28	.19701	.14159	.14771	.12724	.08689
V27	.07678	.06859	.14452	.18288	.01858
V59	.12450	.13488	.07669	.14743	.19535
V26	.05260	.08579	.14693	.20578	.15822
V31	.13217	.17567	.15864	.13507	.09804
V32	.16167	.05205	.10214	.14560	.12068
V41	.06828	.07913	.19758	.08148	.04974
V42	.07934	.14199	.15853	.11395	.05661
V88	.15588	.07384	.07331	.01998	.14456
V89	.16945	.11749	.10231	.17863	.03350
V86	.04210	.17012	.15642	-.04576	.08859
V65	.19348	.13572	.03322	.15693	.07354
V66	.11295	.09494	.13936	.19435	-.01606
V17	.00151	.10313	.17224	.01236	.09083
V68	.03948	.15513	.05011	.22078	.20461
V58	.17080	.23157	.00072	.17911	.11670
V15	.10962	.14588	.14313	.14718	.10272
V3	.06954	.17528	.09821	.20684	.07257
V30	.15693	.18044	.19167	.07296	.12129

(CONTINUE) TABLE 5: PRINCIPAL AXIS FACTORING ANALYSIS EXTRACTION (PAF) (VARIMAX ROTATION)

	Factor 11	Factor 12	Factor 13	Factor 14	Factor 15
V25	.04013	.02438	.09679	.05825	-.04087
V69	-.00056	.07190	.09445	.08651	.11920
V95	.09734	.05753	.08512	.07936	.08647
V71	-.00298	.08283	.06051	.12930	.12708
V24	.13203	-.02934	.01963	.08959	-.08406
V72	-.01538	.13575	.04493	.09422	.11417
V91	.15134	.13054	.06905	.02215	.21037
V103	.00549	.15426	.18297	.03811	.04299
V104	.13392	.16621	.12646	.09202	.02895
V9	.14975	.07993	.07668	.05481	.11308
V50	.16230	-.02306	.14372	.07403	.07806
V78	.18372	.11808	.13554	.09798	.04828
V84	.15173	.13162	.08660	.19226	.06074
V77	.10942	.19233	.08088	.07370	.08540
V100	.19821	.13309	.01957	.08208	.09456
V60	.32652	.12941	.07007	.03563	.18042
V83	.08657	.06617	.16048	.00624	.00618
V51	.25838	.01856	.08673	-.00986	.08801
V34	.14876	.19900	.05437	.05800	.11628
V12	.15984	.13735	.13242	.04299	.07125
V76	.07249	.12616	.25115	.18555	.00456
V39	.13968	.20062	.03019	.05489	.06782
V45	.12235	.12227	.11687	.09291	.11970
V87	-.00128	.03131	.12298	.12342	.17860
V44	.09724	.13676	.13783	.07415	.04012
V40	.23702	.16004	.05936	.20298	.07176
V102	.15457	.04992	.12405	.13616	.02342
V47	.20208	-.09046	.03286	.20090	.10481
V80	.06594	.15305	.03873	.21096	.23803
V16	.01685	.10212	.06443	.09506	.01318
V94	.26981	.15163	.04211	.06773	.24428
V18	.15561	.10977	.20005	.04545	-.05152
V96	.11975	.09336	.15292	.09740	.11219
V105	-.05417	.08065	.14367	.10992	.11280
V99	.15229	.03500	.02870	.12265	.15039
V67	.12724	-.00926	.18574	.23318	.10855
V82	.16236	.10570	.08714	.12984	.15276
V90	.08629	.08456	.07497	.13718	.02447
V43	.09962	.07368	.06424	.00014	.10768
V101	.11117	.06911	.06780	.13682	.08258
V1	.06981	.08849	.15028	.13556	-.01069
V97	.15197	-.07758	.08673	.08492	.05246
V70	.02465	.24866	.01614	.15760	.02193
V98	.09638	-.03605	.12536	.20574	.25057
V2	.11134	-.01042	.10931	.08554	.03372
V74	.08580	.13907	.05834	.03475	.05993
V73	.09902	.03722	.02578	.07911	.02873
V79	.09682	.07053	.11871	.12295	.06689
V85	.22405	.24550	.14000	.07819	.16822
V75	.02337	.08853	.15819	.15868	.00089
V46	.04140	.21332	.11144	.04776	.09711
V93	.13001	.14820	.02347	.18976	.12085
V92	.10592	.08442	.14361	.13605	.23886
V35	.17316	.13508	.08821	.11451	.12046
V36	.17938	.07246	.08361	.01024	.08072
V33	.12291	.24026	.12463	.00968	.07170
V10	-.01995	.04511	.01102	.03832	.01980
V49	.11365	.06909	.21011	.03610	.19176
V38	.10309	.15185	.16679	.21300	.13463
V29	.15350	-.12463	.15279	.17091	.09152

(CONTINUE)TABLE 5: PRINCIPAL AXIS FACTORING ANALYSIS EXTRACTION (PAF) (VARIMAX ROTATION)

	Factor 11	Factor 12	Factor 13	Factor 14	Factor 15
V23	.05140	.09289	.04086	.06829	.06758
V21	.19544	.08244	.14035	.08689	.08712
V22	.12968	-.03035	.08990	.05781	.07319
V19	.11315	.06737	.00817	.09209	.06683
V20	.08082	.09663	.05647	.06408	.07683
V8	.06897	.10880	.09836	.01103	.03600
V52	.08184	.11606	.05376	.09142	.11487
V53	.13471	.08177	.01931	.09142	.05998
V54	.08357	.03571	.19843	.12200	.06288
V81	.09216	.05056	.09615	.09790	.21066
V62	.05430	.13736	.08205	.11121	-.00556
V64	.15950	.14115	.13483	.10809	.08678
V63	.15494	.06772	.05147	-.03310	.28378
V61	.16810	-.01838	.10995	.12031	.19659
V37	.04986	.17005	.15388	.04329	.12528
V13	.09106	.04650	.13449	.09153	-.06257
V11	.07916	.04988	.11882	-.00159	.11315
V14	.10507	.10451	.07732	.09395	.05730
V5	.13170	.04680	.02305	.08506	.06212
V6	.18460	.12611	.10829	.03604	.15447
V4	.11501	.06056	.10129	-.03647	.05138
V7	.04972	.17680	.14177	.06348	.05028
V55	.06896	.07613	.02886	.14976	-.00260
V56	.10408	.09556	.08600	.15893	.04245
V57	.19200	.18108	.01835	.10916	.11398
V48	.03136	.07412	.16191	.00074	.14756
V28	.55020	.11752	.02819	.02286	.06234
V27	.53213	.14247	.07856	.14358	.03091
V59	.41622	.05859	.14828	.07975	.15690
V26	.41282	.04630	.01219	.08159	.09031
V31	.17068	.63686	.08235	.05923	.10126
V32	.14391	.60557	.10367	.03622	.10670
V41	.09861	.05466	.70797	.03874	.01228
V42	.01756	.09800	.55902	.11465	.10933
V88	.07673	.03812	.05140	.62383	.01846
V89	.12991	.04687	.09808	.39964	.09401
V86	.12218	.07701	.15363	.34351	.05759
V65	.10226	.14248	.03473	.02337	.58900
V66	.13398	.11945	.12905	.18958	.33170
V17	.10521	.12180	-.02444	-.01707	.07508
V68	.14997	.07459	.15672	.14680	.19540
V58	.17728	.14064	.12429	.07144	-.04206
V15	.15861	.11966	.02355	.12841	.09935
V3	.04790	.10875	.19875	.06714	.10129
V30	.09949	.15147	.11413	.11160	.07301

(CONTINUE)TABLE 5: PRINCIPAL AXIS FACTORING ANALYSIS EXTRACTION (PAF) (VARIMAX ROTATION)

	Factor 16	Factor 17	Factor 18	Factor 19	Factor 20
V25	.08042	.03967	.11582	.01076	-.13273
V69	-.01744	-.01391	-.02590	-.06473	.01280
V95	-.08059	.12289	.00418	.12483	.03088
V71	-.06601	.04564	.04713	-.05111	.07215
V24	.14871	.03153	.15104	.04902	-.06355
V72	.06984	.00937	-.00370	.02045	.01726
V91	.08218	.13237	.02524	.07062	.12091
V103	.12025	-.03775	-.05501	-.06887	-.00541
V104	.16358	.15183	.03628	-.15530	-.01333
V9	.13665	.02548	.13005	-.14740	-.06040
V50	.15280	-.00692	.04087	-.07275	.05551
V78	.10192	.02140	-.10610	.13388	-.00574
V84	-.01096	.17549	.00330	.28185	-.00153
V77	.05026	-.00383	-.01805	.08545	.37842
V100	.16334	.22346	.04284	.08934	-.04119
V60	.14448	.04646	.07088	-.21062	-.12622
V83	-.00783	.09482	.02458	.19160	.07156
V51	.00663	.08138	.04956	-.10741	-.05654
V34	.02389	.08955	.19667	-.10932	.17328
V12	.12554	.10245	.11936	.06551	.06860
V76	.10650	.07852	-.02291	.09724	.03798
V39	-.03000	.09991	.25013	.02036	-.17209
V45	.07326	-.02978	.29195	-.04464	.01072
V87	.08541	.14041	.16636	.05316	-.04942
V44	.06281	.10481	.28412	-.10032	-.05891
V40	.06027	-.07144	-.00533	.12917	-.20061
V102	.10894	.09945	-.12999	.01583	.01356
V47	.04884	-.05386	.14444	.16756	.04546
V80	.18427	.15196	.01436	.04020	-.02652
V16	.22355	-.02063	.03945	.01903	-.05384
V94	.14915	.09859	.02769	.03712	-.18067
V18	.09327	.01959	.00159	.04464	-.07883
V96	-.03627	-.04977	.06521	.04429	.04194
V105	.05302	.13414	-.04484	-.12570	-.02310
V99	.27396	-.00316	.02773	-.00864	.02492
V67	.22526	.06186	-.03210	.01103	-.01849
V82	-.03289	.01332	-.07649	-.01198	.07211
V90	.11928	-.00239	.12992	.14973	.05817
V43	.09425	.09668	.17735	.05203	-.03728
V101	.12569	.16882	.02527	-.07355	-.04800
V1	.25140	.04930	.05328	-.05714	-.01538
V97	-.00464	.33429	.05225	.00691	-.06165
V70	.08261	.03436	.06385	-.08747	.05167
V98	.12594	-.13341	.03654	.22639	.07202
V2	.11707	.09679	-.04190	-.08129	.07938
V74	.01786	-.06500	-.01214	-.02001	.11615
V73	.07896	.06354	.11592	-.02959	-.01925
V79	-.05112	.16674	.01519	.15335	-.06190
V85	.11619	.13266	.01580	.04804	-.10281
V75	.09518	.02056	.01350	.02215	.00390
V46	.05802	-.01915	.30142	-.07250	.05819
V93	.12706	.09683	.00106	.04338	-.00042
V92	.12403	.11151	-.10961	-.01649	-.02957
V35	.04029	.08837	.03520	-.02865	.01199
V36	.05373	-.00200	.02344	.05595	.05644
V33	-.01689	.09116	.14621	-.08461	.09053
V10	.21644	.07119	.00566	-.00166	-.07486
V49	.17885	.07379	.10834	.14096	-.16863
V38	.02861	.07898	.19116	.16621	-.05906
V29	.02765	-.01502	-.00653	.04999	-.03195

(CONTINUE) TABLE 5: PRINCIPAL AXIS FACTORING ANALYSIS EXTRACTION (PAF) (VARIMAX ROTATION)

	Factor 16	Factor 17	Factor 18	Factor 19	Factor 20
V23	.11858	.01413	.06453	.14599	-.00581
V21	.00887	-.00711	-.01363	-.12238	-.05077
V22	.06229	.20032	.07086	-.05405	.14356
V19	-.00280	-.03374	.08329	.05989	-.06794
V20	-.11531	.04240	-.12534	-.01933	-.13877
V8	.30332	.13890	.02891	.05581	.06001
V52	.05079	.08327	.01932	-.02731	.02414
V53	.01713	-.05797	.07266	.02963	-.02672
V54	.07183	.14784	.04649	.04480	.01239
V81	.02956	.28769	.01428	.02541	-.00051
V62	.06117	.03797	.04848	.03706	.06045
V64	.00628	.10577	.05862	-.06588	-.03167
V63	.04842	.10049	.11609	-.00525	.16701
V61	.07269	.00678	.02299	.01275	-.10900
V37	.10874	.05243	-.01186	.05881	-.08605
V13	.04574	-.00904	.06229	-.04163	.02747
V11	.06681	-.01664	.03015	.03263	-.04736
V14	.01084	.16481	.00990	.02279	.04453
V5	-.01401	.01032	-.05190	.06867	.03175
V6	.08620	.00475	.07364	-.09646	-.04547
V4	.04234	.06387	.06575	.06673	.02882
V7	.20870	.19994	.01138	-.03049	.10689
V55	.12582	.07042	-.00179	-.01363	.00097
V56	.02414	.09330	.06249	.01565	.06385
V57	.05783	.02716	.09263	.00965	-.01103
V48	.19348	.01559	.08485	.13321	-.09335
V28	-.01908	.15016	-.01354	.06527	-.03745
V27	.07263	.05101	.05753	.02772	.09688
V59	.01394	-.03648	.02150	-.05756	-.10334
V26	.19690	-.03021	.07882	-.04349	.09820
V31	.07027	.03273	.03584	.03204	-.02093
V32	.05426	.03992	.06516	-.00419	.04890
V41	.02251	.02270	.01733	.02120	.01542
V42	.04574	.05717	.07063	-.01021	-.00539
V88	.03905	.09039	.07113	.01940	.01678
V89	.07604	-.11020	-.06121	-.06311	-.00417
V86	-.06817	.19010	.02740	.04011	-.02757
V65	.02604	.06251	.05539	.01500	.00717
V66	.00855	.07059	.06267	-.03974	.06622
V17	.35185	.00154	.09813	.02203	.03295
V68	.28394	-.02035	-.05939	-.03244	-.06135
V58	.25082	.04133	.08743	-.04807	-.01227
V15	.05601	.32197	.02597	.02185	.01169
V3	.13626	.23899	.11616	-.08250	.05874
V30	.08211	.09518	.37514	.09134	.00111

TABLE 6: PRINCIPAL AXIS FACTORING (PAF) (OBLIMEN ROTATION)

OBLIMIN rotation 1 for extraction 1 in analysis 1 - Kaiser Normalization.
 OBLIMIN converged in 150 iterations.
 Pattern Matrix:

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
V30	.41133	.06012	-.04999	.11441	.03015
V44	.34805	-.09681	-.12115	.04869	.02045
V46	.34253	-.04870	-.20586	.00798	-.03006
V45	.33412	-.09120	-.17165	.00593	.04232
V39	.31238	-.10767	.05761	.02310	.03027
V87	.20789	-.01154	-.11344	.05908	-.10604
V69	.01614	-.40147	-.00725	.09986	-.11723
V25	.20508	-.35553	.01481	.06193	-.06354
V60	.08237	-.34292	-.08014	.01613	.24228
V71	.09495	-.33570	-.03245	.02040	-.09908
V104	.04616	-.32996	-.10810	.03649	.05051
V9	.15775	-.32455	-.07924	-.04328	.05659
V50	.05834	-.29561	.00657	.12831	.10472
V103	-.01089	-.29042	-.08120	-.03596	-.08889
V24	.23142	-.28680	.13591	.03259	.06929
V51	.07911	-.24980	-.12073	.08384	.17528
V72	.05548	-.24208	-.13466	.00694	-.10758
V38	.20307	.21111	.07312	.01377	.00933
V74	-.01302	-.02582	-.65944	.03715	.02726
V73	.14596	-.01104	-.59908	-.00798	.04610
V79	.03331	.13162	-.29939	.07061	.02533
V75	.00423	.03628	-.27215	.00689	-.05711
V2	-.06821	-.04207	-.15028	.12163	.06354
V13	.02456	-.09627	.04518	.72544	.02615
V11	.02445	.03908	-.00134	.65538	.00672
V14	-.03890	.04632	-.02095	.63894	.03850
V27	.01519	.09795	.00959	.07170	.55211
V28	-.02434	.03123	.00562	.06216	.53220
V26	.04847	-.08288	-.22596	.08241	.39350
V59	.02608	-.19278	-.04967	-.01411	.34977
V35	.00094	.01372	.04485	.06491	.10576
V36	.00351	.03035	-.04460	.06786	.11841
V33	.12610	-.09702	.03579	-.01035	.06132
V34	.18589	-.17996	-.05654	-.01138	.08888
V10	.01780	-.03269	-.12810	.03269	-.09291
V29	.00194	-.05297	-.04226	-.14713	.08809
V52	-.01239	.00023	-.01174	.01015	.00043
V53	.06095	.01093	.02092	.05121	.05288
V54	.03432	-.03022	.03876	.03844	.00182
V81	-.00036	.04100	-.10238	.10327	.00757
V102	-.12724	-.10913	-.03945	-.03993	.09637
V23	.07075	.13669	-.04375	.07112	-.02678
V21	-.01992	-.15997	.05203	.01242	.12118
V22	.03398	-.02342	-.09254	.06184	.08126
V20	-.11373	-.11213	-.14118	.18781	-.03774
V19	.10811	.02203	-.04761	.06214	.02623
V8	.00254	.13201	.04586	-.03672	.02187
V40	.03497	-.05567	.06269	.09041	.14780
V31	.01678	.05201	-.00767	.08161	.08099
V32	.05311	-.01536	-.02908	.02819	.06497
V85	.02714	-.04803	-.20184	-.08719	.15118

TABLE 6: PRINCIPAL AXIS FACTORING (PAF) (OBLIMIN ROTATION)

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
V97	.10114	-.05777	.01352	.10280	.10263
V15	.01524	.00558	.09108	.09000	.10174
V101	.04742	-.01709	-.06231	-.01087	.06007
V3	.09792	-.03301	-.00394	.01289	-.01402
V105	-.04547	-.15268	.00878	.00571	-.15372
V5	-.06173	-.00176	-.03083	.10864	.03886
V6	.07896	-.14117	-.02238	.05841	.10112
V4	.05548	.07780	-.06736	.14059	.04787
V12	.13819	-.05051	.03262	-.06615	.09321
V7	-.03530	.04790	.06416	.03354	-.00092
V41	-.01647	.03568	-.01712	.08792	.04484
V42	.05663	-.03864	.02226	.05568	-.07028
V76	-.01373	-.05627	.11072	-.02506	-.00316
V18	.02415	-.03414	-.07529	.11157	.07181
V65	.03613	.00812	.02931	-.02479	-.01157
V66	.05519	-.04079	-.09282	.07085	.05083
V98	.05626	.12825	.03626	.01542	.02358
V80	.00465	-.04551	-.07690	.09701	-.02786
V92	-.13865	.02259	-.14710	.00185	.03626
V94	.02909	-.07206	-.03832	-.06029	.16799
V77	-.02186	-.08724	-.17990	.04217	.07379
V84	.03434	.02636	-.05137	-.04423	.06785
V95	.05888	-.20541	-.14787	-.00431	.01156
V91	.04959	-.18098	-.00191	.08226	.07882
V83	.08482	-.00772	.04411	-.00070	.01913
V78	-.07334	-.09847	-.10019	-.05719	.09871
V47	.17772	.01068	-.18305	.07313	.14883
V62	.02944	.04581	.02451	.02839	-.03916
V64	.04990	-.03928	-.07559	.07914	.06454
V63	.08457	-.04576	.01969	.09549	.08312
V61	.03493	-.04554	.01721	.06244	.08899
V37	-.02401	.03266	-.10033	.18041	-.06876
V82	-.05373	-.02642	.12102	-.02853	.11113
V90	.19809	.11994	-.08004	.01019	.03020
V43	.24031	.11178	-.11310	.01420	.04291
V100	.05227	-.11098	-.16049	-.03761	.12089
V70	.09090	-.05719	-.16300	.05314	-.03789
V96	.10279	-.03856	-.08418	-.01712	.05940
V55	-.02819	-.00876	-.06502	.07686	-.02513
V56	.03842	.03764	-.11229	-.00081	.01433
V57	.08110	-.09178	-.04556	.03990	.09724
V48	.10188	.10709	-.03791	.06490	-.05814
V49	.12574	.05248	-.05623	.07782	.00014
V88	.05135	-.00470	.04588	.02897	.01119
V89	-.06972	-.05962	-.16137	.04052	.05889
V86	.02951	.06299	-.09459	.09190	.06371
V93	-.01125	.04533	-.17250	.06415	.07191
V17	.13407	-.06465	-.05103	.14472	.06789
V1	.09071	-.10382	-.09992	.08841	.00303
V99	.03467	-.06802	-.06791	.08304	.09897
V16	.07525	-.07498	-.07983	.13836	-.06408
V68	-.08339	-.05522	.01444	-.01927	.06750
V67	-.04604	-.03970	.02685	-.00899	.05582
V58	.06768	-.03909	-.06753	-.09343	.13359

TABLE 6: PRINCIPAL AXIS FACTORING (PAF) (OBLIMEN ROTATION)

	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10
V30	-.07654	-.06339	.05193	.00340	.09036
V44	.00114	-.05818	.13598	.00833	.08186
V46	.03523	-.13357	.00693	.08612	.16136
V45	.02943	-.11382	.04803	.01919	.05458
V39	-.09020	-.10222	.01442	-.15685	.16855
V87	-.07898	-.03073	.02411	-.06361	-.03441
V69	-.10819	-.02061	-.04104	-.07409	.05011
V25	.03782	-.00385	.14948	-.17850	.00624
V60	.03203	-.04173	.03720	-.06997	.09374
V71	-.12034	-.00421	-.05478	-.00223	.05721
V104	-.04661	-.04152	.01346	.02334	.14758
V9	-.03817	-.03081	.06164	-.01384	.03662
V50	-.05568	-.05056	-.00692	.01414	-.06971
V103	.00589	-.09288	.08023	-.07122	.14795
V24	.03294	.00826	.15600	-.12171	-.05716
V51	-.01213	-.07805	-.05347	-.05271	-.04447
V72	.03172	.00292	.01217	-.07951	.13052
V38	-.21079	-.03748	.15571	-.10709	.08814
V74	-.02854	.01992	.11207	.03210	.09513
V73	.00962	-.02942	-.04719	-.02973	-.01385
V79	-.03073	-.03857	.00435	-.12946	.02672
V75	-.22463	-.15848	-.02822	-.04565	.04131
V2	-.13244	-.12302	.07720	.06938	-.07010
V13	-.05963	-.14612	-.00377	.03147	-.00119
V11	.03778	.10609	.02141	-.07701	.00034
V14	.01453	-.02216	.03023	.04701	.05592
V27	-.09181	.00591	.03206	.05378	.09228
V28	-.03590	-.12649	.03786	-.10625	.07359
V26	-.05714	.03220	.10998	.06641	-.02460
V59	.00832	-.05352	.01409	-.14233	.00687
V35	-.54252	-.04996	.06943	-.01829	.08055
V36	-.52943	-.07230	-.00877	-.04522	.00781
V33	-.36873	.05712	.17291	.11834	.19467
V34	-.32058	.04353	.08312	.18339	.13867
V10	-.25629	.02145	.03242	-.09166	.01590
V29	-.22577	-.06162	.12516	-.12365	-.19367
V52	.01603	-.74544	.03281	.04765	.07196
V53	-.01122	-.71262	.05121	-.05759	.03333
V54	-.04229	-.37592	.02313	-.00727	-.01844
V81	-.11462	-.31027	-.04729	.00703	-.00648
V102	-.05224	-.16273	.04374	-.07663	.02699
V23	.00605	-.05129	.62270	-.05621	.04043
V21	-.02493	-.03593	.55052	-.03800	.03928
V22	-.08914	-.03625	.48598	.17622	-.11992
V20	-.16359	-.03454	.32685	-.22137	.06746
V19	-.11770	-.10406	.31884	-.12595	.01255
V8	.04080	-.15509	.30487	.09089	.06102
V40	-.05517	-.03591	.11958	-.34123	.15707
V31	-.04324	-.05465	.00682	-.06168	.67180
V32	-.04521	-.10296	-.00923	.02532	.63491
V85	.10862	-.02954	-.07076	-.13728	.24075
V97	.00476	-.02292	.12185	-.04830	-.13420
V15	-.01267	-.01890	.02825	.03876	.08401
V101	-.02904	-.10752	-.00792	-.02597	.03689

TABLE 6: PRINCIPAL AXIS FACTORING (PAF) (OBLIMIN ROTATION)

	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10
V3	-.06750	.03056	.09043	.14415	.05467
V105	-.13227	-.14825	.15564	.00644	.04472
V5	-.05754	.00738	.05444	-.01168	-.01838
V6	.00660	.06316	.00843	.00817	.07863
V4	-.05472	-.15907	-.05933	.01832	-.00006
V12	-.00208	.05489	.13244	.05133	.08438
V7	.00237	-.06451	.11082	.17963	.13761
V41	.00530	.01383	.01554	.00962	-.00330
V42	-.00100	.01359	.01332	.00703	.04556
V76	-.09123	-.13712	-.03695	-.05163	.10151
V18	-.06584	-.11697	.09525	-.15196	.06951
V65	-.09607	-.13265	.07708	-.01435	.08273
V66	-.04685	-.02746	.04721	.04945	.06219
V98	-.05392	-.10478	.12236	-.10400	-.10785
V80	.10028	-.01473	.05472	-.03186	.12628
V92	.07195	.00284	-.03157	-.03465	.04969
V94	.07973	-.10713	.09757	-.18410	.12195
V77	-.04087	-.01825	.00386	.21467	.15265
V84	-.04408	.06021	.06211	-.15915	.10687
V95	-.07858	-.07431	.04562	-.10405	.03131
V91	.03983	-.01306	.01990	.02504	.09761
V83	.14413	-.12310	.06416	-.05150	.02303
V78	-.01981	-.07898	.03104	-.16922	.09690
V47	.04135	-.05917	.00352	-.09215	-.16619
V62	.00183	.01026	.07656	.01182	.07742
V64	.01937	-.02722	.03350	-.02625	.08185
V63	-.01053	-.11867	.00032	.14704	-.01390
V61	-.00103	-.01964	-.04160	-.17086	-.06772
V37	-.21779	-.02915	.07755	-.16117	.12777
V82	-.09477	.01428	-.01312	-.00947	.06585
V90	.02054	-.09694	.00268	-.06167	.03235
V43	-.04447	-.12591	-.01311	-.06726	.01780
V100	-.17456	-.02413	-.01221	-.10096	.10877
V70	-.04421	.01388	.16328	.04570	.23201
V96	-.00393	-.03799	.08142	-.04631	.05329
V55	-.01744	-.13970	.05662	.02027	.00509
V56	-.06881	-.10220	-.00779	.05973	.00941
V57	-.03837	-.05412	-.00843	-.03094	.12488
V48	-.14134	.02068	.03099	-.13695	.01802
V49	-.18755	.01801	-.05288	-.20944	.00614
V88	-.04094	-.07771	-.00489	.00841	-.00499
V89	.17810	-.11329	.07795	-.03921	.00830
V86	-.03842	.06223	-.04620	-.06136	.03823
V93	.04595	.15401	.12731	-.02352	.12120
V17	-.06526	.07167	.09805	-.02807	.10002
V1	-.09031	.00343	.00913	-.04817	.05382
V99	-.00020	-.15389	.02627	-.00980	-.01009
V16	-.18749	-.08951	.00840	-.13996	.08012
V68	-.08377	.05134	-.01854	-.08023	.02935
V67	-.13166	-.05944	.04850	-.06579	-.06316
V58	-.12232	-.10570	-.02451	.00809	.10761

TABLE 6: PRINCIPAL AXIS FACTORING (PAF) (OBLIMIN ROTATION)

	Factor 11	Factor 12	Factor 13	Factor 14	Factor 15
V30	.02528	-.03567	.09059	.04465	-.05632
V44	.15145	.07721	.10874	-.01111	.10371
V46	-.04003	-.03097	.08826	.06116	.04329
V45	-.05612	-.01824	.09657	.08322	.02080
V39	.10778	.21444	-.02435	.01870	.01392
V87	.14605	.08780	.08682	.15877	-.05023
V69	-.01261	.09576	.06986	.09093	-.21819
V25	.07352	.09833	.09474	-.08695	-.18986
V60	.06251	.09618	.03896	.14512	.12509
V71	.03993	.06567	.03127	.10931	-.24037
V104	.14103	.09891	.10737	-.01514	-.05253
V9	.01261	.25705	.05561	.08457	.01751
V50	-.01866	.04729	.14062	.04846	-.13043
V103	-.00061	.01919	.18516	-.00744	-.12600
V24	.04591	.07344	.00104	-.12803	-.21403
V51	.12256	.21008	.04848	.03333	.00131
V72	.02860	.04006	.02110	.09115	-.23661
V38	.03136	.12484	.12196	.09245	-.00128
V74	-.09321	.04474	.03667	.02583	-.08564
V73	.08458	.04987	-.00267	-.00184	.02096
V79	.17673	.01387	.09662	.02384	-.10657
V75	-.00307	.11433	.12782	-.05029	-.00265
V2	.09789	.04490	.06384	-.00543	.02105
V13	-.07141	.06742	.09116	-.11953	.00822
V11	-.01167	.06117	.07337	.07566	.05380
V14	.10398	.00198	.01217	.01657	-.03158
V27	-.00474	.07153	.04005	-.02536	.00043
V28	.15786	.03343	-.02778	-.00207	-.04850
V26	-.10228	.09196	-.02579	.05541	-.02380
V59	-.03565	.06641	.13972	.10700	.03598
V35	.05188	.02849	.02469	.08217	.05851
V36	-.04283	.09238	.03087	.03868	-.05605
V33	.01394	.01798	.10360	.03403	-.00900
V34	-.00215	-.02837	.01667	.09085	-.08904
V10	.08943	.13009	-.04003	-.00834	.02900
V29	-.01885	.04767	.14201	.06216	-.05692
V52	.04892	-.00236	-.00686	.07311	.01584
V53	-.09327	.01005	-.04668	.00786	.01959
V54	.10582	-.02623	.18085	.02045	-.09848
V81	.28570	.08035	.03786	.19257	-.04968
V102	.12214	-.05205	.09480	-.02641	-.13494
V23	-.03210	.06464	-.00290	.03315	-.07447
V21	-.00421	.00630	.11833	.04184	.09453
V22	.13252	-.08425	.05550	.05036	-.05225
V20	.08863	-.04013	-.00830	.02325	.01132
V19	-.03258	.07101	-.05506	.02043	.00912
V8	.09327	.13343	.06430	-.00140	-.01335
V40	-.04989	-.08225	.01548	.01576	-.05776
V31	-.03760	.00808	.02590	.03623	-.00813
V32	-.03240	.02059	.06586	.04932	-.05944
V85	.12047	-.05393	.14058	.13654	-.06775

TABLE 6: PRINCIPAL AXIS FACTORING (PAF) (OBLIMIN ROTATION)

	Factor 11	Factor 12	Factor 13	Factor 14	Factor 15
V97	.42888	-.05897	.04779	.01297	-.06327
V15	.30691	.08587	-.04129	.06904	-.07589
V101	.24300	.02514	.01229	.04544	.09329
V3	.19852	.12118	.18655	.07885	.02760
V105	.16385	-.03312	.10700	.07767	.04852
V5	-.02499	.65876	-.05014	.00832	-.08573
V6	-.00528	.54231	.07572	.11896	.08745
V4	.02563	.44571	.05863	.01112	-.03478
V12	.05214	.28565	.11717	.02885	-.15964
V7	.13494	.20585	.11219	.01296	-.00606
V41	-.02766	-.02357	.84283	-.05126	.00277
V42	.00907	.02171	.64459	.06522	-.00121
V76	.05137	.07550	.24869	-.05333	-.19951
V18	.04632	.03741	.17642	-.13287	-.02489
V65	.00943	.06175	-.02140	.62874	-.00710
V66	.04192	.11503	.08839	.32798	-.01811
V98	-.16930	.01605	.09589	.23538	-.19462
V80	.10284	.01009	-.00631	.22944	-.08671
V92	.11299	.03179	.12284	.22231	.04060
V94	.07367	.17959	.00225	.22184	.01674
V77	-.09707	.04943	.05373	.05496	-.43656
V84	.11842	.11505	.06332	.02149	-.39231
V95	.11660	.04730	.07601	.05826	-.38089
V91	.09352	-.00601	.04373	.19764	-.32967
V83	.11551	.08246	.15136	-.05499	-.32477
V78	.03106	.14647	.11057	-.00978	-.26052
V47	-.09845	-.02513	.00202	.08245	-.20732
V62	-.03368	.10564	.01360	-.06374	-.03389
V64	.09245	.02382	.08109	.02965	.07996
V63	.00110	.01517	.00197	.28552	-.12014
V61	.02456	-.06375	.07456	.17654	.04568
V37	.02613	-.04384	.10561	.07954	.00607
V82	.08039	.09437	.02965	.10242	-.04026
V90	.04411	.07473	.01800	-.03275	-.13279
V43	.17545	.03097	.00944	.06905	.03669
V100	.17396	.07830	-.01772	.07236	-.21234
V70	.06311	-.01105	-.04793	-.02871	.02930
V96	-.03929	.05736	.14305	.07611	-.10213
V55	.03383	.06288	-.04074	-.07618	.03503
V56	.03517	.02173	.02958	-.02658	-.01731
V57	-.04617	-.04534	-.03272	.06062	-.04424
V48	.00619	.06036	.15001	.11322	-.00415
V49	.05359	.13858	.20284	.15625	-.01098
V88	.02523	-.02285	-.01093	-.02422	-.02395
V89	-.10700	.13877	.05152	.04640	.07426
V86	.19771	-.10773	.11910	.01276	-.01939
V93	.05904	.10116	-.02164	.09858	-.03524
V17	.01358	-.10015	-.07217	.05450	-.07751
V1	.10287	.01926	.11287	-.06728	.01596
V99	.00028	.02926	-.01892	.12550	-.02702
V16	.01069	-.06317	.01152	-.03153	-.02978
V68	-.03624	.14184	.12987	.16342	.08472
V67	.04954	-.02212	.16145	.07142	-.01169
V58	-.00764	.08916	.10678	-.09187	.06457

TABLE 6: PRINCIPAL AXIS FACTORING (PAF) (OBLIMEN ROTATION)

	Factor 16	Factor 17	Factor 18	Factor 19	Factor 20
V30	-.08764	-.10198	.02311	.09657	.02388
V44	.01848	.14773	.03314	.04631	.03407
V46	-.10729	.11162	.12209	.01578	.01693
V45	-.09192	.05206	.16844	.05752	.01952
V39	-.07857	-.01784	.06473	.02593	-.09207
V87	-.06591	.03679	.06611	.09149	.06476
V69	-.09716	.06055	.04485	.06047	-.01888
V25	.02040	-.04509	.07556	.04018	.06864
V60	-.05504	-.03842	.10510	-.01307	.08134
V71	-.08771	.08438	-.00176	.12423	-.06625
V104	-.01797	-.08661	.03001	.07630	.12611
V9	-.01007	-.07657	.07891	.03906	.08253
V50	.03247	.02975	.03765	.04674	.15464
V103	.00326	.15307	.07562	-.01155	.13699
V24	-.04718	-.02498	.06674	.08383	.15274
V51	-.05412	.09654	.19939	-.07671	-.03285
V72	.01028	.09592	.04493	.07274	.08738
V38	-.09818	.03253	-.03810	.17687	-.02017
V74	-.00942	.00185	.07055	-.02256	-.01348
V73	-.01490	-.03782	.10630	.04668	.05071
V79	.10188	.00655	.17106	.07182	-.08945
V75	-.06177	-.00902	.02207	.12258	.07541
V2	-.14510	.07638	-.04551	.03639	.11745
V13	.03868	-.08127	-.03728	.06373	.00217
V11	-.01405	.10680	.05071	-.06784	.05499
V14	-.06957	-.06633	.02733	.05074	-.04524
V27	.01498	.04898	-.05027	.09962	.02918
V28	-.05405	.05933	.03276	-.06910	-.06270
V26	.00870	-.08460	.12079	.03921	.14360
V59	-.03277	.02365	.15880	.00685	-.05261
V35	.02111	.04761	.02830	.07778	.02062
V36	-.03048	.05349	.06619	-.05230	.05461
V33	.04039	-.01031	.18161	-.01427	-.08132
V34	-.04866	-.01706	.19222	.04589	-.03229
V10	-.04520	-.01482	.08339	.01451	.23187
V29	-.13027	.03444	.01545	.12686	.01644
V52	.05724	.00537	.07050	.03697	-.00227
V53	-.04324	.00768	.05241	.02885	-.03367
V54	-.11442	-.05831	.02332	.07159	.02980
V81	.02233	-.00545	-.06275	.04913	.00144
V102	-.13172	.09458	-.01596	.08069	.12507
V23	.04260	-.02587	.01988	.01490	.07536
V21	-.04141	.07246	-.04743	.02911	-.04520
V22	-.14092	-.07237	.07145	.01104	-.00007
V20	-.16491	.08343	.00328	-.02082	-.14222
V19	-.05359	.08432	.08432	.03793	-.03583
V8	-.04399	-.01503	.08495	-.03790	.27732
V40	-.06521	.04519	-.00769	.15026	.04859
V31	-.10931	.01165	.01280	.00356	.00455
V32	.03129	.03531	.03653	-.00618	-.00555
V85	-.00683	-.09197	.12457	.02368	.06061
V97	.06494	.18286	.10225	.04257	.00450
V15	-.10242	-.00084	.04481	.10656	.01784
V101	-.07582	.20206	-.04677	.10468	.14568
V3	-.13069	-.03842	-.01356	.04683	.08936
V105	-.05173	.13414	.10707	.07323	.04083

TABLE 6: PRINCIPAL AXIS FACTORING (PAF) (OBLIMEN ROTATION)

	Factor 16	Factor 17	Factor 18	Factor 19	Factor 20
V5	-.04644	.06308	.07755	.04509	-.06535
V6	.05019	.04061	.00378	.00863	.02846
V4	-.12097	-.02044	-.07455	-.09294	.00228
V12	-.00776	.01224	.12651	.00946	.08111
V7	-.02163	-.01847	.10126	.04139	.16169
V41	.02291	-.00339	-.00553	-.04509	-.03978
V42	-.05130	-.00422	-.01905	.06084	-.01469
V76	-.06613	.06582	-.01745	.15205	.10593
V18	-.14118	.09964	.08005	-.03942	.08176
V65	-.04276	.03901	-.00742	-.04082	-.02527
V66	.00147	.10714	-.12288	.16023	-.02640
V98	-.01654	.18223	.02087	.15202	.14602
V80	.03441	-.09924	.13831	.19930	.13278
V92	-.03509	.05674	.13771	.08670	.09216
V94	-.06257	-.16414	.06718	.00901	.06844
V77	-.08317	.13917	-.01902	.03525	.06602
V84	-.03582	-.11238	.04076	.16210	-.04870
V95	.11605	-.01971	.01842	.04466	-.09011
V91	-.05036	.02717	.03820	-.02620	.07520
V83	-.05388	.22097	.17250	-.06857	.00093
V78	-.12023	.07869	-.03907	.02577	.11364
V47	-.15285	-.01929	.06632	.16593	.02716
V62	-.75713	.01363	.09075	.04641	.00508
V64	-.46742	.06174	.11683	.03650	-.05964
V63	-.41231	-.03925	.06728	-.10210	-.01051
V61	-.38829	.06301	-.01620	.05486	.05889
V37	-.29730	-.02883	.06761	-.04318	.07842
V82	-.02069	.47739	.12458	.07566	.00500
V90	-.14991	.32808	-.00711	.08447	.16855
V43	-.09954	.27869	.00891	-.06651	.12674
V100	-.02881	-.24866	.00954	.05531	.12597
V70	.00650	.23361	.05900	.14297	.08800
V96	-.04112	.19499	-.04705	.04884	-.03886
V55	-.06132	.05558	.65002	.10571	.05325
V56	-.15472	.07440	.61404	.10794	-.05976
V57	-.08889	-.03989	.58493	.06249	-.03724
V48	.09619	.04317	.34805	-.06191	.17444
V49	.08993	-.08037	.28729	-.02888	.13252
V88	.00937	-.01426	.10350	.69162	-.01908
V89	-.04241	.15618	-.02612	.39289	.04551
V86	-.10540	.09399	.03389	.33343	-.10065
V93	-.04758	-.04812	.03472	.17501	.08443
V17	-.03453	.09074	.04134	-.05449	.40336
V1	-.12781	.18319	-.03745	.09953	.29295
V99	.10551	.09665	.09733	.09062	.28766
V16	-.14756	.09921	-.03729	.05243	.26777
V68	-.08162	.05018	.18487	.10178	.26396
V67	-.11321	.04202	.05785	.19795	.22237
V58	-.18209	-.11259	.06730	.04160	.21158

TABLE 7: PRINCIPAL AXIS FACTORING (PAF) EXTRACTING 17 FACTORS (OBLIMIN ROTATION)

Final Statistics:

Variable	Communality *	Factor	Eigenvalue	Pct of Var	Cum Pct
V1	.60556 *	1	38.39039	36.6	36.6
V10	.37434 *	2	2.22367	2.1	38.7
V100	.62742 *	3	1.73469	1.7	40.3
V101	.38950 *	4	1.47974	1.4	41.7
V102	.40632 *	5	1.24170	1.2	42.9
V103	.54982 *	6	1.19061	1.1	44.1
V104	.61289 *	7	1.07900	1.0	45.1
V105	.44787 *	8	1.02027	1.0	46.1
V11	.54976 *	9	.97285	.9	47.0
V12	.54510 *	10	.91890	.9	47.9
V13	.63539 *	11	.87858	.8	48.7
V14	.54858 *	12	.78343	.7	49.4
V15	.37250 *	13	.74606	.7	50.2
V16	.52639 *	14	.73534	.7	50.9
V17	.43343 *	15	.68012	.6	51.5
V18	.53895 *	16	.65850	.6	52.1
V19	.43730 *	17	.62714	.6	52.7
V2	.37326 *				
V20	.48877 *				
V21	.52932 *				
V22	.56290 *				
V23	.55866 *				
V24	.55398 *				
V25	.64143 *				
V26	.56057 *				
V27	.41643 *				
V28	.51626 *				
V29	.41270 *				
V3	.40186 *				
V30	.51329 *				

----- FACTOR ANALYSIS -----

Variable	Communality *	Factor	Eigenvalue	Pct of Var	Cum Pct
V31	.69047 *				
V32	.66988 *				
V33	.53261 *				
V34	.60932 *				
V35	.59115 *				
V36	.56376 *				
V37	.61930 *				
V38	.56213 *				
V39	.55949 *				
V4	.45124 *				
V40	.48502 *				
V41	.60625 *				
V42	.58735 *				
V43	.50904 *				
V44	.58716 *				
V45	.60800 *				
V46	.56245 *				
V47	.47280 *				
V48	.49576 *				
V49	.68997 *				
V5	.56379 *				
V50	.44684 *				
V51	.61405 *				
V52	.67791 *				
V53	.65137 *				
V54	.48709 *				
V55	.69748 *				
V56	.76540 *				
V57	.69663 *				

(CONTINUE) TABLE 7: PRINCIPAL AXIS FACTORING (PAF) EXTRACTING 17 FACTORS (OBLIMIN ROTATION)

V58	.41670 *
V59	.55279 *
V6	.56506 *
V60	.65946 *
V61	.44470 *
V62	.72228 *
V63	.53375 *
V64	.61698 *
V65	.60053 *
V66	.47685 *
V67	.47396 *
V68	.48017 *
V69	.61117 *
V7	.37237 *
V70	.47273 *
V71	.54244 *
V72	.49149 *
V73	.58210 *
V74	.60621 *

----- FACTOR ANALYSIS -----

Variable	Communality *	Factor	Eigenvalue	Pct of Var	Cum Pct
V75	.48013 *				
V76	.49190 *				
V77	.54317 *				
V78	.57031 *				
V79	.43273 *				
V8	.43603 *				
V80	.41523 *				
V81	.52682 *				
V82	.50725 *				
V83	.49424 *				
V84	.55617 *				
V85	.52111 *				
V86	.42107 *				
V87	.54510 *				
V88	.38186 *				
V89	.43879 *				
V9	.58872 *				
V90	.59844 *				
V91	.51745 *				
V92	.33385 *				
V93	.33049 *				
V94	.51747 *				
V95	.57678 *				
V96	.32892 *				
V97	.50149 *				
V98	.47672 *				
V99	.42273 *				

(CONTINUE) TABLE 7: PRINCIPAL AXIS FACTORING (PAF) EXTRACTING 17 FACTORS (OBLIMIN ROTATION)

PAF extracted 17 factors. 11 iterations required.
 OBLIMIN rotation 1 for extraction 1 in analysis 1 - Kaiser Normalization.
 OBLIMIN converged in 61 iterations.

Pattern Matrix:

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
V1	.36214	-.10754	.00080	.10320	.01791
V17	.35357	-.10664	-.00051	.09494	.00342
V16	.30045	-.12404	.04623	.12968	-.07697
V101	.26535	.04079	-.01365	.02929	-.00258
V43	.26025	.09066	-.09277	.06709	.03764
V99	.23738	-.06559	-.05761	.04152	.09246
V68	.21855	.02544	-.10732	-.06330	.14046
V69	.01257	-.55349	-.04999	.09513	.02786
V71	-.03754	-.51814	-.05116	.02528	.01834
V25	.13829	-.50093	-.10419	.06740	.02717
V95	-.10617	-.45765	-.01666	.01120	.02172
V24	.14750	-.43138	-.07546	.01343	.07514
V72	.10724	-.41140	-.03697	-.00603	.01043
V103	.19407	-.36167	-.06380	-.03196	-.01274
V91	.00939	-.35918	.01980	.04083	.06663
V50	.10931	-.34939	-.03267	.10514	.09573
V104	.16981	-.33499	-.06115	.04679	.07508
V77	-.10344	-.33052	.04752	.01299	.18041
V9	.13163	-.30187	-.13782	-.02704	.20996
V78	.07769	-.24065	.10445	-.04638	.12418
V56	-.05843	.04023	-.62795	-.01254	.04185
V55	.05833	.03105	-.60652	.04905	.06761
V57	-.05438	-.08630	-.54994	-.00244	-.02206
V48	.17086	.06773	-.28685	.03025	.07744
V45	.07507	-.09973	-.27289	.01569	-.00484
V34	-.06239	-.22668	-.26617	-.01330	.03772
V51	.08689	-.21259	-.26298	.14600	.16794
V46	.10541	-.05824	-.24902	.02987	-.01058
V44	.19628	-.07845	-.19640	.11376	.04045
V13	-.03072	-.09952	.03577	.69749	.07189
V11	.09798	.05450	-.01990	.64524	.05257
V14	-.06740	.02719	-.00211	.62666	.01229
V20	.00324	-.09762	-.01847	.25099	-.18464
V5	-.07885	-.06951	-.06772	.14677	.55018
V6	.07894	-.08698	-.05073	.09711	.46752
V4	.00010	.03944	.06251	.17956	.43038
V12	.02805	-.15097	-.12714	-.07385	.33286
V7	.10487	.06046	-.06578	.00571	.26781
V35	.01045	.03674	-.05809	.08501	.01801
V36	.00137	-.01588	-.06543	.08790	.11839
V10	.26323	-.04208	-.07552	.03662	.09710
V33	-.08121	-.10515	-.24561	.00457	.04027
V29	-.01160	-.08934	-.01939	-.12755	.00349
V37	.11345	.02506	-.01962	.17917	-.09903
V75	.07647	.00515	-.05376	.03528	.07291
V49	.14102	.01396	-.23534	.05134	.11813
V67	.16618	-.03479	-.00997	-.04415	-.00986
V52	.00076	.02331	-.06264	.00347	.00690
V53	-.03773	.02782	-.05137	.04942	-.00347
V54	.00336	-.08915	-.00322	.02116	-.01170
V81	.04191	-.00259	.04879	.12619	.06616
V102	.11452	-.15351	.06160	-.03412	-.05285
V105	.13976	-.13247	-.13468	.02162	-.09415

TABLE 7: PRINCIPAL AXIS FACTORING (PAF) EXTRACTING 17 FACTORS (OBLIMEN ROTATION)

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
V23	.01739	.06306	.01964	.06996	.05079
V22	-.04031	-.02473	-.09299	.08079	-.03878
V21	.01218	-.06394	.01694	.06141	-.06872
V8	.19689	.13875	-.01524	-.06794	.21276
V19	.00907	.00095	-.11606	.09730	.00277
V62	.00522	.03220	-.07751	.02862	.07014
V64	.04321	.03470	-.16139	.11635	-.03802
V63	-.07170	-.08247	-.03961	.05999	.09666
V61	.11249	.00242	.03589	.05856	-.11376
V58	.17834	.03148	-.06751	-.10189	.12226
V2	.12739	-.00611	.02449	.15457	.05710
V31	.01564	.05632	.01644	.06981	-.01384
V32	-.00549	-.04533	-.03054	.01678	.03036
V70	.16749	-.06371	-.14609	.08603	-.03470
V85	.08370	-.04866	-.08613	-.09576	-.06546
V97	.14298	-.10035	-.16708	.15606	-.06899
V15	.02913	-.03184	-.04599	.09197	.09505
V84	-.15061	-.23521	.02528	-.06585	.09568
V86	-.04933	.03626	-.09766	.11309	-.16642
V100	.07053	-.22802	.03717	-.05326	.08127
V74	-.00277	-.06460	-.12452	.09909	.02742
V73	.13546	-.00674	-.20964	.06022	.01657
V47	-.06224	-.12573	-.06598	.05262	.00754
V79	-.04193	.04087	-.18984	.11058	-.03121
V93	.04138	.03230	-.01605	.05438	.08239
V80	.07958	-.09482	-.07534	.03112	.01116
V41	-.05341	.04400	.01422	.10375	.00662
V42	-.00983	-.05218	.00875	.04748	.00542
V76	.04028	-.19248	.05820	-.05358	.08955
V3	.11010	-.01948	-.03237	.01851	.14385
V18	.14449	-.04423	-.07898	.14928	.00305
V28	-.05210	.08268	-.02561	.11964	.06583
V59	-.01687	-.09589	-.16918	.01564	.03437
V27	-.06928	.16169	.03291	.09722	.16115
V60	.18193	-.19549	-.14565	.04242	.05184
V26	.03031	-.02404	-.11495	.08297	.17889
V94	.08030	-.02460	-.00973	-.06734	.11835
V40	.06358	-.09039	.05399	.08122	-.16633
V90	.19868	-.00937	-.03526	.02843	.10721
V98	.00932	-.02448	.05729	-.04464	.06386
V38	-.02540	.13871	.00118	.02023	.07711
V83	.00895	-.21910	-.13859	.00593	.12290
V30	.02233	-.03830	-.10822	.10133	-.00192
V39	.04548	-.14853	-.16020	.06517	.11083
V96	-.01616	-.11786	-.00102	.01396	.04173
V65	-.03875	-.00163	.05467	-.06223	.05198
V66	-.02751	-.06446	.07955	.07893	.09478
V92	.09572	.08187	-.08743	-.01250	.02026
V87	.12887	-.10058	-.11526	.06503	.05194
V82	.06468	-.04678	-.15307	.00224	.09764
V89	.04028	-.00193	-.00377	.04583	.05602
V88	-.07154	-.05559	-.13116	-.01503	-.06873

TABLE 7: PRINCIPAL AXIS FACTORING (PAF) EXTRACTING 17 FACTORS (OBLIMIN ROTATION)

	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10
V1	-.09765	-.00427	.02939	-.13820	.06875
V17	-.05892	.06606	.15988	-.06433	.12829
V16	-.22373	-.09345	.01061	-.14459	.08653
V101	-.02425	-.11791	-.00742	-.08055	.04492
V43	-.00219	-.12709	-.00757	-.12799	.06864
V99	-.01893	-.16865	.07628	.08333	-.00317
V68	-.16676	.04298	-.00784	-.06150	-.00499
V69	-.11855	-.02408	-.06724	-.09242	.03368
V71	-.09543	-.01182	-.05206	-.11106	.06413
V25	.01988	-.01179	.13391	.02905	-.00541
V95	-.07311	-.08749	.03165	.10586	.04997
V24	.02497	-.00415	.19049	-.06917	-.04940
V72	.01863	-.00469	.00050	.01309	.12613
V103	-.00237	-.09474	.04977	.02133	.14106
V91	.06677	-.02164	.05717	-.08446	.11905
V50	-.04260	-.05947	.03966	.00058	-.05699
V104	-.04444	-.05409	.03266	-.02358	.13998
V77	.01659	-.02757	.06747	-.14153	.21049
V9	-.04177	-.03710	.07571	-.02233	.03197
V78	-.08096	-.08569	-.00803	-.10402	.09559
V56	-.07218	-.11854	.00248	-.16287	.01855
V55	-.05952	-.15582	.05681	-.04181	-.01228
V57	-.05466	-.06872	.00901	-.09569	.12917
V48	-.17906	.01607	.03536	.10957	.01909
V45	.07946	-.12461	.09333	-.14231	.09976
V34	-.22786	.03369	.16142	-.11152	.19849
V51	.00650	-.08243	-.07855	-.06179	-.02824
V46	.11381	-.13919	.05074	-.16061	.21510
V44	.06123	-.06718	.15550	-.01735	.12364
V13	-.05925	-.15143	.02267	.02419	.00183
V11	.02461	.11057	.00804	-.00642	.00114
V14	.00768	-.02824	.04329	-.07276	.05218
V20	-.20416	-.03360	.20654	-.10450	.04764
V5	-.11347	-.00016	.01107	-.02289	-.02618
V6	-.01154	.05967	-.00248	.05173	.07279
V4	-.06288	-.15696	-.07553	-.12755	.01235
V12	.00921	.05053	.16843	-.03281	.10766
V7	.00439	-.07110	.15309	-.02766	.13002
V35	-.53923	-.05459	.08890	.01017	.11060
V36	-.52342	-.07040	.00491	-.04859	.05320
V10	-.31091	.02042	.02494	-.02252	.00221
V33	-.29806	.05585	.21227	.01062	.24324
V29	-.27287	-.07157	.12036	-.13413	-.19325
V37	-.27264	-.02609	.03580	-.26403	.11347
V75	-.26719	-.16974	-.04053	-.05560	.04631
V49	-.24606	.01073	-.05707	.10670	-.00334
V67	-.19248	-.07493	.07793	-.11358	-.08191
V52	.02281	-.77857	.03027	.05746	.06609
V53	-.02087	-.73974	.03672	-.04712	.03885
V54	-.04648	-.39458	.03814	-.12732	-.02332
V81	-.11097	-.32528	-.04693	.01494	-.00775
V102	-.08778	-.17353	.02850	-.12233	.02078
V105	-.13396	-.15371	.13121	-.02544	.02048

TABLE 7: PRINCIPAL AXIS FACTORING (PAF) EXTRACTING 17 FACTORS (OBLIMEN ROTATION)

	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10
V23	-.03259	-.05608	.61137	.05694	.04449
V22	-.04308	-.04519	.53901	-.17305	-.09383
V21	-.03245	-.03763	.51613	-.02207	.03720
V8	.02001	-.15902	.34165	-.04408	.05741
V19	-.13927	-.10964	.28958	-.04291	.02660
V62	-.03769	.01036	.05800	-.73827	.07166
V64	.01304	-.02881	.00520	-.46681	.08359
V63	.03805	-.11630	.04988	-.46068	.01449
V61	-.04637	-.01940	-.06266	-.39178	-.08186
V58	-.14831	-.11364	.01193	-.19863	.11654
V2	-.13051	-.12832	.08837	-.15628	-.05936
V31	-.06024	-.05468	-.01854	-.09142	.68214
V32	-.02170	-.10697	-.01166	.03057	.67068
V70	-.02277	.00454	.17115	.00217	.25876
V85	.07319	-.04103	-.08237	.00088	.23652
V97	.04442	-.03925	.12360	.05301	-.11293
V15	-.01418	-.03028	.04978	-.11245	.08137
V84	-.10295	.04233	.05568	-.03485	.11063
V86	-.05505	.03880	-.04307	-.11200	.04456
V100	-.21724	-.03956	.01231	-.03813	.11096
V74	-.02530	.01584	.08622	-.01837	.13284
V73	.01064	-.04181	-.04587	-.03300	.01955
V47	.02119	-.07826	.04890	-.20267	-.13081
V79	-.05626	-.05440	-.02877	.11432	.03770
V93	-.00870	.14403	.14065	-.04120	.11200
V80	.04094	-.03634	.08129	.03855	.09040
V41	.01778	.01288	.01272	.01590	.01091
V42	.01010	.01184	.01917	-.05359	.03986
V76	-.12410	-.15157	-.02897	-.06667	.09970
V3	-.03456	.02807	.13526	-.15640	.06176
V18	-.09439	-.11900	.05419	-.12300	.07882
V28	-.03127	-.13634	.03170	-.07469	.11664
V59	-.01055	-.06295	-.00537	-.03879	.01929
V27	-.06939	-.01497	.09749	-.04265	.15075
V60	.02811	-.04831	.03546	-.06000	.08864
V26	-.05515	.01590	.18112	-.04221	.02063
V94	-.00098	-.11498	.07093	-.03921	.08796
V40	-.14333	-.04710	.07636	-.03606	.14560
V90	.03477	-.10515	.02004	-.18404	.08400
V98	-.09706	-.11696	.15288	-.04202	-.08552
V38	-.23409	-.04882	.16855	-.11009	.10846
V83	.16136	-.12805	.04767	-.06668	.05253
V30	-.02863	-.07767	.12924	-.14880	.14063
V39	-.08307	-.10933	-.00541	-.08300	.18009
V96	.01405	-.04103	.07203	-.06093	.08861
V65	-.09799	-.13082	.08397	-.05399	.07544
V66	-.03492	-.03646	.07181	-.02667	.07506
V92	.01414	-.00485	-.04831	-.01163	.01813
V87	-.08069	-.04043	.03846	-.08054	-.02864
V82	-.07494	.01345	-.03467	-.02602	.09466
V89	.09696	-.13545	.06536	-.03337	-.01710
V88	-.09353	-.12132	.05993	-.02172	-.02276

TABLE 7: PRINCIPAL AXIS FACTORING (PAF) EXTRACTING 17 FACTORS (OBLIMEN ROTATION)

	Factor 11	Factor 12	Factor 13	Factor 14	Factor 15
V1	.05407	.05503	.11302	-.00876	-.06437
V17	-.00131	.08055	-.07979	.03620	-.09667
V16	-.01622	.06835	.01569	-.03572	-.11690
V101	.18520	-.02257	.01000	.03648	-.02400
V43	.08918	-.02916	-.01749	-.04116	-.23326
V99	.01494	.12246	-.01390	.09844	-.04300
V68	-.02944	.06547	.16291	.15474	.02612
V69	-.03000	.00419	.08625	-.00365	.00773
V71	.05168	.01841	.03673	-.05575	-.02063
V25	.04701	-.01533	.12173	.09237	-.14441
V95	.18035	.14072	.06687	.04091	-.12682
V24	.06870	-.08386	.01354	.15622	-.17165
V72	.03948	.14644	.03283	-.03545	-.09004
V103	-.05931	.03512	.18703	-.00634	-.00375
V91	.14540	.04912	.03146	.06330	-.04388
V50	-.01670	.02460	.13215	.12588	.02677
V104	.10684	.10977	.12050	.11565	.14633
V77	.02305	.20863	.01378	-.09328	-.01534
V9	-.04470	.07706	.07557	.16231	.04686
V78	.07812	.10739	.10529	.13883	-.12784
V56	.07467	.10410	.03951	-.01048	-.01998
V55	.05152	.08818	-.01433	.01411	.01877
V57	.00686	.09771	-.01427	.15659	-.02688
V48	-.00241	.05434	.16686	-.01429	-.18030
V45	-.08296	.13897	.10018	.03062	-.14055
V34	.01262	.03392	-.00181	.00106	.06949
V51	.03188	.00856	.03252	.21471	.01069
V46	-.09601	.12978	.08169	-.08774	-.11562
V44	.04880	-.00492	.10484	-.00375	-.12628
V13	-.05296	.00031	.10430	.01700	.04830
V11	-.04695	-.00864	.08552	.01650	-.08823
V14	.14763	.06134	.02070	-.00267	.05660
V20	.01806	.02075	.00772	.06434	-.03679
V5	-.00259	.02855	-.01736	.06582	-.05518
V6	-.06371	.00202	.10168	.15999	.01351
V4	.00328	.02978	.05825	.00361	-.06288
V12	.08791	-.01082	.11902	.06570	-.08768
V7	.15110	-.02264	.12666	-.05982	.12299
V35	.05427	-.09224	.01623	.04774	.02156
V36	-.03687	-.01086	.00011	.03592	-.05233
V10	.04929	.11524	-.02553	-.04733	-.02469
V33	-.00081	-.09458	.09248	-.00231	.06308
V29	.00558	.04339	.14295	.11972	-.09342
V37	.00105	.08382	.12473	-.00799	-.05979
V75	.00873	.25189	.13332	-.06886	-.03629
V49	.05702	.09047	.23537	.09685	-.18428
V67	.09256	.04690	.18171	.08770	-.01191
V52	.03031	-.00111	-.01030	-.01410	.05027
V53	-.10301	-.02954	-.04493	.06685	-.07997
V54	.13418	-.01516	.18906	-.00037	-.01538
V81	.28338	.06606	.03465	-.03305	.01547
V102	.14315	.03116	.08478	.10435	.01585
V105	.08789	-.07922	.12283	-.10673	.08856
V23	-.00668	.07702	.01390	-.02188	-.16610
V22	.12556	.07371	.03442	-.01299	.10781
V21	-.07227	-.11138	.12205	.17802	.04870
V8	.09307	-.00144	.06913	-.03154	.00428
V19	-.05126	-.00048	-.04553	.05280	-.17438

TABLE 7: PRINCIPAL AXIS FACTORING (PAF) EXTRACTING 17 FACTORS (OBLIMIN ROTATION)

	Factor 11	Factor 12	Factor 13	Factor 14	Factor 15
V62	-.00964	-.01194	.03720	-.03414	-.04326
V64	.05262	.01311	.09339	.08551	.00690
V63	.01614	.00532	-.01073	.02161	.03960
V61	.01248	-.01142	.09233	.17325	-.09767
V58	-.00630	.09875	.11030	.13378	.05017
V2	.06133	.09693	.04341	-.00414	.09440
V31	-.00720	.01807	.04756	.08996	-.02446
V32	-.01032	.02335	.07269	.03766	.00802
V70	.03114	.09240	-.04893	-.08553	-.03482
V85	.15324	.23589	.15460	.22727	-.03710
V97	.37528	-.12778	.02912	.06123	-.08528
V15	.35249	-.07868	-.03678	.06815	.03150
V84	.29228	.15172	.08746	.10055	-.22074
V86	.28658	.09531	.14703	.04760	-.08488
V100	.25076	.23570	-.00949	.16795	-.01748
V74	-.09433	.56327	.00920	-.02030	.00112
V73	.04847	.50879	-.01390	.02619	-.06107
V47	.01865	.26667	.00173	.13361	-.24403
V79	.21944	.25700	.09918	.01647	-.15787
V93	.13227	.24951	.00777	.09319	-.02611
V80	.17802	.21057	.04638	.05971	-.00698
V41	-.03284	-.01458	.80251	.01235	.00741
V42	.00117	-.01923	.68689	-.04719	-.00703
V76	.13124	-.06320	.26301	-.00084	-.07972
V3	.17552	-.01111	.19614	-.06109	.09276
V18	.00358	.00263	.16909	.09081	-.10995
V28	.16908	-.06327	-.07040	.43644	-.04721
V59	-.05230	.02480	.13582	.43507	-.01903
V27	.07599	.01094	.00489	.37063	-.00695
V60	-.02936	.04745	.04679	.36794	.11229
V26	-.05669	.27916	-.05073	.32195	.04824
V94	.07774	.10479	.03782	.31513	-.04097
V40	.00779	-.01424	.05041	.28177	-.23357
V90	.06373	.02185	.00039	-.06959	-.32048
V98	-.05027	.06305	.10774	.00788	-.28896
V38	.09377	-.05302	.15480	-.01031	-.25774
V83	.14180	-.09038	.12396	-.02674	-.22827
V30	.06765	.08060	.10188	-.02068	-.21055
V39	.06154	-.11489	.00650	.11451	-.18857
V96	-.03337	.02850	.12951	.02953	-.15952
V65	-.00012	.00554	-.00413	.03398	-.03113
V66	.06375	.10281	.09973	.02558	-.01721
V92	.12622	.17792	.14086	.08091	.05890
V87	.13627	.09900	.10814	-.08162	-.16220
V82	.06248	-.23029	.00549	.03942	-.09336
V89	-.03727	.22251	.09795	.12353	-.03177
V88	.20327	.12848	.07041	.04815	-.06336
	Factor 16	Factor 17			
V1	-.04176	.14468			
V17	.03347	.00958			
V16	-.03295	.05852			
V101	.09611	.16187			
V43	.16152	.06616			
V99	.08995	.12404			
V68	.10901	.14409			

TABLE 7: PRINCIPAL AXIS FACTORING (PAF) EXTRACTING 17 FACTORS (OBLIMEN ROTATION)

	actor 16	Factor 17
V69	.09667	.07242
V71	.12842	.08273
V25	-.07400	-.10151
V95	.06711	-.01812
V24	-.14862	-.06372
V72	.09124	.09760
V103	.01407	.12907
V91	.16669	.01181
V50	.02512	.04977
V104	-.00725	-.04310
V77	.02175	.18429
V9	.09954	-.07733
V78	-.02529	.12853
V56	-.02665	.09114
V55	-.08666	.10094
V57	.02457	-.02242
V48	.11061	-.04858
V45	.11181	-.04796
V34	.10488	-.06011
V51	.10494	.01700
V46	.12138	-.03571
V44	.08763	-.01363
V13	-.14031	-.04364
V11	.08791	.03461
V14	-.00493	-.01511
V20	.07944	.07474
V5	.03209	.11409
V6	.15639	.03302
V4	.04675	-.06922
V12	.02348	-.00958
V7	-.00705	.03057
V35	.10279	.04285
V36	.05910	.00922
V10	.00262	-.02933
V33	.06942	-.07745
V29	.05514	.09633
V37	.08061	-.05039
V75	-.04176	.04699
V49	.14786	-.14819
V67	.01664	.15175
V52	.07412	.02165
V53	.00020	-.00260
V54	-.00083	-.03655
V81	.22125	-.00989
V102	-.04143	.16942
V105	.11804	.12867
V23	.01998	-.01063
V22	.06362	-.04512
V21	.06960	.10480
V8	-.02624	-.00228
V19	.05379	.04165
V62	-.08123	.03643
V64	.06065	.04310
V63	.25823	-.08360
V61	.16068	.05906
V58	-.11934	-.07562
V2	.01741	.11254

TABLE 7: PRINCIPAL AXIS FACTORING (PAF) EXTRACTING 17 FACTORS (OBLIMEN ROTATION)

	Factor 16	Factor 17
V31	.02574	.01148
V32	.05249	.01453
V70	.01557	.21827
V85	.11517	-.05788
V97	.09033	.07757
V15	.06614	.03174
V84	-.03864	-.02222
V86	.00473	.18426
V100	.03317	-.19146
V74	.06552	.04306
V73	.05685	-.04904
V47	.03007	.02744
V79	.05421	.00647
V93	.05483	.07877
V80	.15077	.02460
V41	-.04206	-.00258
V42	.06406	-.00230
V76	-.09814	.12877
V3	.09608	-.05187
V18	-.09723	.04914
V28	.02848	.04826
V59	.10697	.04659
V27	-.03273	.12085
V60	.16548	-.04240
V26	.02407	.00529
V94	.18785	-.10702
V40	-.02573	.08965
V90	.00094	.21825
V98	.15709	.21525
V38	.09196	.00558
V83	-.02312	.10947
V30	.04915	-.19997
V39	.08123	-.15347
V96	.10303	.15645
V65	.60911	.00960
V66	.32840	.15627
V92	.19224	.15937
V87	.18551	-.03490
V82	.15249	.43129
V89	.00029	.35985
V88	-.09539	.23539

Differences Between Cohorts

TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure					
Class Level Information					
Class	Levels	Values			
YEAR	7	87	88	89	90 91 92 93
Number of observations in data set = 432					
Analysis of Variance Procedure					
Dependent Variable: F1					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	26.6902434	4.4483739	5.63	0.0001
Error	425	335.8256326	0.7901780		
Corrected Total	431	362.5158759			
R-Square		C.V.	Root MSE	F1 Mean	
0.073625		-9999.99	0.88892	-0.00189	
Analysis of Variance Procedure					
Dependent Variable: F1					
Source	DF	Anova SS	Mean Square	F Value	Pr > F
YEAR	6	26.6902434	4.4483739	5.63	0.0001
Analysis of Variance Procedure					
Dependent Variable: F2					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	18.2757873	3.0459646	3.82	0.0010
Error	425	338.4956814	0.7964604		
Corrected Total	431	356.7714687			
R-Square		C.V.	Root MSE	F2 Mean	
0.051225		-9999.99	0.89245	-0.00481	
Analysis of Variance Procedure					
Dependent Variable: F2					
Source	DF	Anova SS	Mean Square	F Value	Pr > F
YEAR	6	18.2757873	3.0459646	3.82	0.0010
Analysis of Variance Procedure					

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Dependent Variable: F5					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	43.1726037	7.1954339	9.22	0.0001
Error	425	331.6354011	0.7803186		
Corrected Total	431	374.8080047			
R-Square		C.V.	Root MSE	F5 Mean	
0.115186		-9999.99	0.88336	-0.00669	
Analysis of Variance Procedure					
Dependent Variable: F5					
Source	DF	Anova SS	Mean Square	F Value	Pr > F
YEAR	6	43.1726037	7.1954339	9.22	0.0001
Analysis of Variance Procedure					
Dependent Variable: F6					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	8.00061004	1.33343501	1.53	0.1679
Error	425	371.33986241	0.87374085		
Corrected Total	431	379.34047245			
R-Square		C.V.	Root MSE	F6 Mean	
0.021091		-8093.807	0.93474	-0.01155	
Analysis of Variance Procedure					
Dependent Variable: F6					
Source	DF	Anova SS	Mean Square	F Value	Pr > F
YEAR	6	8.00061004	1.33343501	1.53	0.1679
Analysis of Variance Procedure					
Dependent Variable: F7					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	18.3267034	3.0544506	3.07	0.0060
Error	425	423.3750161	0.9961765		
Corrected Total	431	441.7017195			
R-Square		C.V.	Root MSE	F7 Mean	
0.041491		9999.99	0.99809	0.00193	
Analysis of Variance Procedure					
Dependent Variable: F7					
Source	DF	Anova SS	Mean Square	F Value	Pr > F

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

YEAR	6	18.3267034	3.0544506	3.07	0.0060
Analysis of Variance Procedure					
Dependent Variable: F8					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	6.88252848	1.14708808	1.25	0.2787
Error	425	389.45852018	0.91637299		
Corrected Total	431	396.34104866			
R-Square		C.V.	Root MSE	F8 Mean	
0.017365		-9999.99	0.95727	-0.00387	
Analysis of Variance Procedure					
Dependent Variable: F8					
Source	DF	Anova SS	Mean Square	F Value	Pr > F
YEAR	6	6.88252848	1.14708808	1.25	0.2787
Analysis of Variance Procedure					
Dependent Variable: F15					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	11.7773644	1.9628941	2.39	0.0278
Error	425	349.0077764	0.8211948		
Corrected Total	431	360.7851408			
R-Square		C.V.	Root MSE	F15 Mean	
0.032644		9999.99	0.90620	0.00836	
Analysis of Variance Procedure					
Dependent Variable: F15					
Source	DF	Anova SS	Mean Square	F Value	Pr > F
YEAR	6	11.7773644	1.9628941	2.39	0.0278
Analysis of Variance Procedure					
Dependent Variable: F16					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	3.17558624	0.52926437	0.49	0.8131
Error	425	455.56650443	1.07192119		
Corrected Total	431	458.74209067			
R-Square		C.V.	Root MSE	F16 Mean	
0.006922		9999.99	1.03534	0.00412	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Dependent Variable: F16					
Source	DF	Anova SS	Mean Square	F Value	Pr > F
YEAR	6	3.17558624	0.52926437	0.49	0.8131

Analysis of Variance Procedure

Dependent Variable: F18					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	4.58447103	0.76407850	0.68	0.6632
Error	425	475.18421851	1.11808051		
Corrected Total	431	479.76868954			

R-Square	C.V.	Root MSE	F18 Mean
0.009556	-9999.99	1.05739	-0.00094

Analysis of Variance Procedure

Dependent Variable: F18					
Source	DF	Anova SS	Mean Square	F Value	Pr > F
YEAR	6	4.58447103	0.76407850	0.68	0.6632

Tukey's Studentized Range (HSD) Test for variable: F1

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.790178
Critical Value of Studentized Range= 4.190

Comparisons significant at the 0.05 level are indicated by '***'.

		Simultaneous Lower Difference		Simultaneous Upper
YEAR	Comparison	Confidence Limit	Between Means	Confidence Limit
93	-92	-0.1222	0.3136	0.7495
93	-88	-0.1020	0.3950	0.8921

Analysis of Variance Procedure

		Simultaneous Lower Difference		Simultaneous Upper
YEAR	Comparison	Confidence Limit	Between Means	Confidence Limit
93	-90	-0.0222	0.4491	0.9203
93	-87	0.0048	0.5171	1.0294 ***
93	-89	0.0358	0.5587	1.0817 ***
93	-91	0.3795	0.8154	1.2512 ***
92	-93	-0.7495	-0.3136	0.1222
92	-88	-0.3880	0.0814	0.5507
92	-90	-0.3065	0.1354	0.5773
92	-87	-0.2821	0.2034	0.6889
92	-89	-0.2516	0.2451	0.7418
92	-91	0.0978	0.5017	0.9057 ***

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
88 - 93	-0.8921	-0.3950	0.1020
88 - 92	-0.5507	-0.0814	0.3880
88 - 90	-0.4484	0.0540	0.5564
88 - 87	-0.4191	0.1220	0.6632
88 - 89	-0.3875	0.1637	0.7149
88 - 91	-0.0490	0.4203	0.8897
90 - 93	-0.9203	-0.4491	0.0222
90 - 92	-0.5773	-0.1354	0.3065
90 - 88	-0.5564	-0.0540	0.4484
90 - 87	-0.4495	0.0680	0.5855

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
90 - 89	-0.4184	0.1097	0.6377
90 - 91	-0.0756	0.3663	0.8082
87 - 93	-1.0294	-0.5171	-0.0048 ***
87 - 92	-0.6889	-0.2034	0.2821
87 - 88	-0.6632	-0.1220	0.4191
87 - 90	-0.5855	-0.0680	0.4495
87 - 89	-0.5233	0.0417	0.6067
87 - 91	-0.1872	0.2983	0.7838
89 - 93	-1.0817	-0.5587	-0.0358 ***

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
89 - 92	-0.7418	-0.2451	0.2516
89 - 88	-0.7149	-0.1637	0.3875
89 - 90	-0.6377	-0.1097	0.4184
89 - 87	-0.6067	-0.0417	0.5233
89 - 91	-0.2401	0.2566	0.7533
91 - 93	-1.2512	-0.8154	-0.3795 ***
91 - 92	-0.9057	-0.5017	-0.0978 ***
91 - 88	-0.8897	-0.4203	0.0490
91 - 90	-0.8082	-0.3663	0.0756
91 - 87	-0.7838	-0.2983	0.1872
91 - 89	-0.7533	-0.2566	0.2401

Analysis of Variance Procedure

Bonferroni (Dunn) T tests for variable: F1

NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.

Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.790178
Critical Value of T= 3.05646

Comparisons significant at the 0.05 level are indicated by '***'.

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit
93 - 92	-0.1360	0.3136	0.7633
93 - 88	-0.1178	0.3950	0.9079
93 - 90	-0.0371	0.4491	0.9352
93 - 87	-0.0115	0.5171	1.0456
93 - 89	0.0192	0.5587	1.0983 ***
93 - 91	0.3657	0.8154	1.2650 ***
92 - 93	-0.7633	-0.3136	0.1360
92 - 88	-0.4028	0.0814	0.5656
92 - 90	-0.3205	0.1354	0.5913
92 - 87	-0.2974	0.2034	0.7043

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit
92 - 89	-0.2674	0.2451	0.7575
92 - 91	0.0850	0.5017	0.9185 ***
88 - 93	-0.9079	-0.3950	0.1178
88 - 92	-0.5656	-0.0814	0.4028
88 - 90	-0.4643	0.0540	0.5723
88 - 87	-0.4362	0.1220	0.6803
88 - 89	-0.4050	0.1637	0.7324
88 - 91	-0.0639	0.4203	0.9046
90 - 93	-0.9352	-0.4491	0.0371

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit
90 - 92	-0.5913	-0.1354	0.3205
90 - 88	-0.5723	-0.0540	0.4643
90 - 87	-0.4659	0.0680	0.6019
90 - 89	-0.4351	0.1097	0.6544
90 - 91	-0.0896	0.3663	0.8222

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit
87 - 93	-1.0456	-0.5171	0.0115
87 - 92	-0.7043	-0.2034	0.2974
87 - 88	-0.6803	-0.1220	0.4362
87 - 90	-0.6019	-0.0680	0.4659
87 - 89	-0.5413	0.0417	0.6246
87 - 91	-0.2026	0.2983	0.7992

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit	
89 - 93	-1.0983	-0.5587	-0.0192	***
89 - 92	-0.7575	-0.2451	0.2674	
89 - 88	-0.7324	-0.1637	0.4050	
89 - 90	-0.6544	-0.1097	0.4351	
89 - 87	-0.6246	-0.0417	0.5413	
89 - 91	-0.2558	0.2566	0.7691	
91 - 93	-1.2650	-0.8154	-0.3657	***
91 - 92	-0.9185	-0.5017	-0.0850	***
91 - 88	-0.9046	-0.4203	0.0639	
91 - 90	-0.8222	-0.3663	0.0896	
91 - 87	-0.7992	-0.2983	0.2026	
91 - 89	-0.7691	-0.2566	0.2558	

Analysis of Variance Procedure

Scheffe's test for variable: F1

NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.

Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.790178
Critical Value of F= 2.11991

Comparisons significant at the 0.05 level are indicated by '***'.

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit	
93 - 92	-0.2110	0.3136	0.8383	
93 - 88	-0.2033	0.3950	0.9934	
93 - 90	-0.1182	0.4491	1.0163	
93 - 87	-0.0997	0.5171	1.1338	
93 - 89	-0.0708	0.5587	1.1883	
93 - 91	0.2907	0.8154	1.3401	***

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit	
92 - 93	-0.8383	-0.3136	0.2110	
92 - 88	-0.4836	0.0814	0.6464	
92 - 90	-0.3966	0.1354	0.6674	
92 - 87	-0.3810	0.2034	0.7879	
92 - 89	-0.3529	0.2451	0.8430	
92 - 91	0.0154	0.5017	0.9880	***
88 - 93	-0.9934	-0.3950	0.2033	
88 - 92	-0.6464	-0.0814	0.4836	
88 - 90	-0.5508	0.0540	0.6588	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
88 - 87	-0.5294	0.1220	0.7735	
88 - 89	-0.4999	0.1637	0.8273	
88 - 91	-0.1447	0.4203	0.9854	
90 - 93	-1.0163	-0.4491	0.1182	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
90 - 92	-0.6674	-0.1354	0.3966	
90 - 88	-0.6588	-0.0540	0.5508	
90 - 87	-0.5550	0.0680	0.6910	
90 - 89	-0.5260	0.1097	0.7453	
90 - 91	-0.1657	0.3663	0.8983	
87 - 93	-1.1338	-0.5171	0.0997	
87 - 92	-0.7879	-0.2034	0.3810	
87 - 88	-0.7735	-0.1220	0.5294	
87 - 90	-0.6910	-0.0680	0.5550	
87 - 89	-0.6385	0.0417	0.7218	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
87 - 91	-0.2862	0.2983	0.8828	
89 - 93	-1.1883	-0.5587	0.0708	
89 - 92	-0.8430	-0.2451	0.3529	
89 - 88	-0.8273	-0.1637	0.4999	
89 - 90	-0.7453	-0.1097	0.5260	
89 - 87	-0.7218	-0.0417	0.6385	
89 - 91	-0.3413	0.2566	0.8546	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
91 - 93	-1.3401	-0.8154	-0.2907	***
91 - 92	-0.9830	-0.5017	-0.0154	***
91 - 88	-0.9854	-0.4203	0.1447	
91 - 90	-0.8983	-0.3663	0.1657	
91 - 87	-0.8828	-0.2983	0.2862	
91 - 89	-0.8546	-0.2566	0.3413	
Analysis of Variance Procedure				

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Tukey's Studentized Range (HSD) Test for variable: F2

NOTE: This test controls the type I experimentwise error rate.

Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.79646

Critical Value of Studentized Range= 4.190

Comparisons significant at the 0.05 level are indicated by '***'.

YEAR	Simultaneous Lower Confidence Comparison Limit	Simultaneous Difference Between Means	Upper Confidence Limit
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90 - 88	-0.4399	0.0645	0.5688
90 - 89	-0.4227	0.1074	0.6376

Analysis of Variance Procedure

YEAR	Simultaneous Lower Confidence Comparison Limit	Simultaneous Difference Between Means	Upper Confidence Limit
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90 - 92	-0.1967	0.2470	0.6906
90 - 91	-0.0275	0.4161	0.8598
90 - 93	0.0797	0.5528	1.0259 ***
90 - 87	0.0402	0.5598	1.0793 ***
88 - 90	-0.5688	-0.0645	0.4399
88 - 89	-0.5104	0.0430	0.5964
88 - 92	-0.2887	0.1825	0.6537
88 - 91	-0.1195	0.3517	0.8229
88 - 93	-0.0107	0.4883	0.9873
88 - 87	-0.0480	0.4953	1.0386

Analysis of Variance Procedure

YEAR	Simultaneous Lower Confidence Comparison Limit	Simultaneous Difference Between Means	Upper Confidence Limit
------	--	--	---------------------------

89 - 90	-0.6376	-0.1074	0.4227
89 - 88	-0.5964	-0.0430	0.5104
89 - 92	-0.3591	0.1395	0.6382
89 - 91	-0.1900	0.3087	0.8074
89 - 93	-0.0797	0.4453	0.9704
89 - 87	-0.1149	0.4523	1.0196
92 - 90	-0.6906	-0.2470	0.1967
92 - 88	-0.6537	-0.1825	0.2887
92 - 89	-0.6382	-0.1395	0.3591
92 - 91	-0.2364	0.1692	0.5747
92 - 93	-0.1318	0.3058	0.7434
92 - 87	-0.1746	0.3128	0.8002
91 - 90	-0.8598	-0.4161	0.0275
91 - 88	-0.8229	-0.3517	0.1195
91 - 89	-0.8074	-0.3087	0.1900
91 - 92	-0.5747	-0.1692	0.2364
91 - 93	-0.3009	0.1366	0.5742
91 - 87	-0.3438	0.1436	0.6310

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
93 - 90	-1.0259	-0.5528	-0.0797	***
93 - 88	-0.9873	-0.4883	0.0107	
93 - 89	-0.9704	-0.4453	0.0797	
93 - 92	-0.7434	-0.3058	0.1318	
93 - 91	-0.5742	-0.1366	0.3009	
93 - 87	-0.5074	0.0070	0.5213	
87 - 90	-1.0793	-0.5598	-0.0402	***
87 - 88	-1.0386	-0.4953	0.0480	
87 - 89	-1.0196	-0.4523	0.1149	
87 - 92	-0.8002	-0.3128	0.1746	
87 - 91	-0.6310	-0.1436	0.3438	

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
87 - 93	-0.5213	-0.0070	0.5074

Analysis of Variance Procedure

Bonferroni (Dunn) T tests for variable: F2

NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.

Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.79646
Critical Value of T= 3.05646

Comparisons significant at the 0.05 level are indicated by ****.

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
90 - 88	-0.4559	0.0645	0.5848
90 - 89	-0.4395	0.1074	0.6544
90 - 92	-0.2107	0.2470	0.7047
90 - 91	-0.0416	0.4161	0.8739
90 - 93	0.0647	0.5528	1.0409
90 - 87	0.0237	0.5598	1.0958
88 - 90	-0.5848	-0.0645	0.4559
88 - 89	-0.5280	0.0430	0.6139
88 - 92	-0.3036	0.1825	0.6687
88 - 91	-0.1345	0.3517	0.8378
88 - 93	-0.0265	0.4883	1.0032
88 - 87	-0.0652	0.4953	1.0558

(CONTINUE) TABLE 3: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison	Limit	Means	Limit	
89 - 90	-0.6544	-0.1074	0.4395	
89 - 88	-0.6139	-0.0430	0.5280	
89 - 92	-0.3749	0.1395	0.6540	
89 - 91	-0.2058	0.3087	0.8232	
89 - 93	-0.0963	0.4453	0.9870	
89 - 87	-0.1329	0.4523	1.0376	
92 - 90	-0.7047	-0.2470	0.2107	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison	Limit	Means	Limit	
92 - 88	-0.6687	-0.1825	0.3036	
92 - 89	-0.6540	-0.1395	0.3749	
92 - 91	-0.2493	0.1692	0.5876	
92 - 93	-0.1456	0.3058	0.7572	
92 - 87	-0.1901	0.3128	0.8156	
91 - 90	-0.8739	-0.4161	0.0416	
91 - 88	-0.8378	-0.3517	0.1345	
91 - 89	-0.8232	-0.3087	0.2058	
91 - 92	-0.5876	-0.1692	0.2493	
91 - 93	-0.3148	0.1366	0.5881	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison	Limit	Means	Limit	
91 - 87	-0.3593	0.1436	0.6465	
93 - 90	-1.0409	-0.5528	-0.0647	***
93 - 88	-1.0032	-0.4883	0.0265	
93 - 89	-0.9870	-0.4453	0.0963	
93 - 92	-0.7572	-0.3058	0.1456	
93 - 91	-0.5881	-0.1366	0.3148	
93 - 87	-0.5237	0.0070	0.5376	
87 - 90	-1.0958	-0.5598	-0.0237	***
87 - 88	-1.0558	-0.4953	0.0652	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison	Limit	Means	Limit	
87 - 89	-1.0376	-0.4523	0.1329	
87 - 92	-0.8156	-0.3128	0.1901	
87 - 91	-0.6465	-0.1436	0.3593	
87 - 93	-0.5376	-0.0070	0.5237	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure
Scheffe's test for variable: F2

NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.

Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.79646
Critical Value of F= 2.11991

Comparisons significant at the 0.05 level are indicated by '***'.

Analysis of Variance Procedure

YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
90 - 88	-0.5427	0.0645	0.6717
90 - 89	-0.5307	0.1074	0.7456
90 - 92	-0.2871	0.2470	0.7811
90 - 91	-0.1180	0.4161	0.9502
90 - 93	-0.0168	0.5528	1.1223
90 - 87	-0.0657	0.5598	1.1852
88 - 90	-0.6717	-0.0645	0.5427
88 - 89	-0.6232	0.0430	0.7092
88 - 92	-0.3848	0.1825	0.7498
88 - 91	-0.2156	0.3517	0.9189

Analysis of Variance Procedure

YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
88 - 93	-0.1124	0.4883	1.0891
88 - 87	-0.1587	0.4953	1.1493
89 - 90	-0.7456	-0.1074	0.5307
89 - 88	-0.7092	-0.0430	0.6232
89 - 92	-0.4608	0.1395	0.7399
89 - 91	-0.2916	0.3087	0.9090
89 - 93	-0.1867	0.4453	1.0774
89 - 87	-0.2306	0.4523	1.1352
92 - 90	-0.7811	-0.2470	0.2871

Analysis of Variance Procedure

YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
92 - 88	-0.7498	-0.1825	0.3848
92 - 89	-0.7399	-0.1395	0.4608
92 - 91	-0.3191	0.1692	0.6574
92 - 93	-0.2210	0.3058	0.8325
92 - 87	-0.2740	0.3128	0.8996

(CONTINUE) TABLE 3: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
91 - 90	-0.9502	-0.4161	0.1180
91 - 88	-0.9189	-0.3517	0.2156
91 - 89	-0.9090	-0.3087	0.2916
91 - 92	-0.6574	-0.1692	0.3191
91 - 93	-0.3901	0.1366	0.6634
91 - 87	-0.4432	0.1436	0.7304
93 - 90	-1.1223	-0.5528	0.0168
93 - 88	-1.0891	-0.4883	0.1124
93 - 89	-1.0774	-0.4453	0.1867
93 - 92	-0.8325	-0.3058	0.2210
93 - 91	-0.6634	-0.1366	0.3901
93 - 87	-0.6122	0.0070	0.6262
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
87 - 90	-1.1852	-0.5598	0.0657
87 - 88	-1.1493	-0.4953	0.1587
87 - 89	-1.1352	-0.4523	0.2306
87 - 92	-0.8996	-0.3128	0.2740
87 - 91	-0.7304	-0.1436	0.4432
87 - 93	-0.6262	-0.0070	0.6122
Analysis of Variance Procedure			
Tukey's Studentized Range (HSD) Test for variable: F5			
NOTE: This test controls the type I experimentwise error rate.			
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.780319			
Critical Value of Studentized Range= 4.190			
Comparisons significant at the 0.05 level are indicated by '***'.			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
87 - 88	-0.5139	0.0238	0.5615
87 - 89	-0.3950	0.1664	0.7279
87 - 90	-0.0609	0.4533	0.9676
87 - 91	0.1065	0.5890	1.0714 ***
87 - 92	0.2851	0.7676	1.2500 ***
87 - 93	0.3698	0.8789	1.3881 ***
88 - 87	-0.5615	-0.0238	0.5139
88 - 89	-0.4051	0.1426	0.6904
88 - 90	-0.0697	0.4295	0.9287
88 - 91	0.0988	0.5652	1.0316 ***
88 - 92	0.2774	0.7438	1.2102 ***
88 - 93	0.3612	0.8551	1.3491 ***

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
89 - 87	-0.7279	-0.1664	0.3950
89 - 88	-0.6904	-0.1426	0.4051
89 - 90	-0.2378	0.2869	0.8116
89 - 91	-0.0710	0.4225	0.9161
89 - 92	0.1076	0.6012	1.0947 ***
89 - 93	0.1928	0.7125	1.2322 ***
Analysis of Variance Procedure			
YEAR Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
90 - 87	-0.9676	-0.4533	0.0609
90 - 88	-0.9287	-0.4295	0.0697
90 - 89	-0.8116	-0.2869	0.2378
90 - 91	-0.3035	0.1357	0.5748
90 - 92	-0.1249	0.3143	0.7534
90 - 93	-0.0426	0.4256	0.8939
91 - 87	-1.0714	-0.5890	-0.1065 ***
91 - 88	-1.0316	-0.5652	-0.0988 ***
91 - 89	-0.9161	-0.4225	0.0710
91 - 90	-0.5748	-0.1357	0.3035
91 - 92	-0.2228	0.1786	0.5800
91 - 93	-0.1431	0.2900	0.7231
Analysis of Variance Procedure			
YEAR Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
92 - 87	-1.2500	-0.7676	-0.2851 ***
92 - 88	-1.2102	-0.7438	-0.2774 ***
92 - 89	-1.0947	-0.6012	-0.1076 ***
92 - 90	-0.7534	-0.3143	0.1249
92 - 91	-0.5800	-0.1786	0.2228
92 - 93	-0.3217	0.1114	0.5445
93 - 87	-1.3881	-0.8789	-0.3698 ***
93 - 88	-1.3491	-0.8551	-0.3612 ***
93 - 89	-1.2322	-0.7125	-0.1928 ***
93 - 90	-0.8939	-0.4256	0.0426
93 - 91	-0.7231	-0.2900	0.1431
Analysis of Variance Procedure			
YEAR Comparison	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
93 - 92	-0.5445	-0.1114	0.3217
Analysis of Variance Procedure			

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Bonferroni (Dunn) T tests for variable: F5			
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.			
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.780319			
Critical Value of T= 3.05646			
Comparisons significant at the 0.05 level are indicated by '***'.			
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
87 - 88	-0.5310	0.0238	0.5786
87 - 89	-0.4128	0.1664	0.7457
87 - 90	-0.0773	0.4533	0.9839
87 - 91	0.0912	0.5890	1.0867 ***
87 - 92	0.2698	0.7676	1.2653 ***
87 - 93	0.3537	0.8789	1.4042 ***
88 - 87	-0.5786	-0.0238	0.5310
88 - 89	-0.4225	0.1426	0.7077
88 - 90	-0.0856	0.4295	0.9446
88 - 91	0.0840	0.5652	1.0464 ***
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
88 - 92	0.2626	0.7438	1.2250 ***
88 - 93	0.3455	0.8551	1.3647 ***
89 - 87	-0.7457	-0.1664	0.4128
89 - 88	-0.7077	-0.1426	0.4225
89 - 90	-0.2545	0.2869	0.8282
89 - 91	-0.0867	0.4225	0.9318
89 - 92	0.0919	0.6012	1.1104 ***
89 - 93	0.1764	0.7125	1.2487 ***
90 - 87	-0.9839	-0.4533	0.0773
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
90 - 88	-0.9446	-0.4295	0.0856
90 - 89	-0.8282	-0.2869	0.2545
90 - 91	-0.3174	0.1357	0.5887
90 - 92	-0.1388	0.3143	0.7673
90 - 93	-0.0575	0.4256	0.9088
91 - 87	-1.0867	-0.5890	-0.0912 ***
91 - 88	-1.0464	-0.5652	-0.0840 ***
91 - 89	-0.9318	-0.4225	0.0867
91 - 90	-0.5887	-0.1357	0.3174
91 - 92	-0.2355	0.1786	0.5928
91 - 93	-0.1569	0.2900	0.7368

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Comparison Limit	Simultaneous Difference Between Means	Upper Confidence Limit	
92 - 87	-1.2653	-0.7676	-0.2698	***
92 - 88	-1.2250	-0.7438	-0.2626	***
92 - 89	-1.1104	-0.6012	-0.0919	***
92 - 90	-0.7673	-0.3143	0.1388	
92 - 91	-0.5928	-0.1786	0.2355	
92 - 93	-0.3355	0.1114	0.5582	
93 - 87	-1.4042	-0.8789	-0.3537	***
93 - 88	-1.3647	-0.8551	-0.3455	***
93 - 89	-1.2487	-0.7125	-0.1764	***
93 - 90	-0.9088	-0.4256	0.0575	
93 - 91	-0.7368	-0.2900	0.1569	
93 - 92	-0.5582	-0.1114	0.3355	
Analysis of Variance Procedure				
Scheffe's test for variable: F5				
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.				
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.780319				
Critical Value of F= 2.11991				
Comparisons significant at the 0.05 level are indicated by '***'.				
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Comparison Limit	Simultaneous Difference Between Means	Upper Confidence Limit	
87 - 88	-0.6235	0.0238	0.6712	
87 - 89	-0.5095	0.1664	0.8424	
87 - 90	-0.1658	0.4533	1.0724	
87 - 91	0.0082	0.5890	1.1698	***
87 - 92	0.1868	0.7676	1.3484	***
87 - 93	0.2661	0.8789	1.4918	***
88 - 87	-0.6712	-0.0238	0.6235	
88 - 89	-0.5168	0.1426	0.8020	
88 - 90	-0.1715	0.4295	1.0305	
88 - 91	0.0037	0.5652	1.1267	***
88 - 92	0.1823	0.7438	1.3053	***
88 - 93	0.2605	0.8551	1.4498	***
89 - 87	-0.8424	-0.1664	0.5095	
89 - 88	-0.8020	-0.1426	0.5168	
89 - 90	-0.3448	0.2869	0.9186	
89 - 91	-0.1717	0.4225	1.0168	
89 - 92	0.0069	0.6012	1.1954	***
89 - 93	0.0869	0.7125	1.3381	***

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Upper Confidence Limit	
Comparison				
90 - 87	-1.0724	-0.4533	0.1638	
90 - 88	-1.0305	-0.4295	0.1715	
90 - 89	-0.9186	-0.2869	0.3448	
90 - 91	-0.3930	0.1357	0.6643	
90 - 92	-0.2144	0.3143	0.8429	
90 - 93	-0.1381	0.4256	0.9894	
91 - 87	-1.1698	-0.5890	-0.0082	***
91 - 88	-1.1267	-0.5652	-0.0037	***
91 - 89	-1.0168	-0.4225	0.1717	
91 - 90	-0.6643	-0.1357	0.3930	
91 - 92	-0.3046	0.1786	0.6619	
91 - 93	-0.2314	0.2900	0.8114	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Upper Confidence Limit	
Comparison				
92 - 87	-1.3484	-0.7676	-0.1868	***
92 - 88	-1.3053	-0.7438	-0.1823	***
92 - 89	-1.1954	-0.6012	-0.0069	***
92 - 90	-0.8429	-0.3143	0.2144	
92 - 91	-0.6619	-0.1786	0.3046	
92 - 93	-0.4100	0.1114	0.6327	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Upper Confidence Limit	
Comparison				
93 - 87	-1.4918	-0.8789	-0.2661	***
93 - 88	-1.4498	-0.8551	-0.2605	***
93 - 89	-1.3381	-0.7125	-0.0869	***
93 - 90	-0.9894	-0.4256	0.1381	
93 - 91	-0.8114	-0.2900	0.2314	
93 - 92	-0.6327	-0.1114	0.4100	
Analysis of Variance Procedure				
Tukey's Studentized Range (HSD) Test for variable: F6				
NOTE: This test controls the type I experimentwise error rate.				
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.873741				
Critical Value of Studentized Range= 4.190				
Comparisons significant at the 0.05 level are indicated by '***'.				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Upper Confidence Limit	
Comparison				
91 - 89	-0.4378	0.0845	0.6068	
91 - 88	-0.3556	0.1380	0.6315	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

YEAR Comparison	Simultaneous Lower Confidence Limit		Simultaneous Difference Between Means Upper Confidence Limit	
	Limit	Means	Limit	
91 - 87	-0.3248	0.1837	0.6962	
91 - 92	-0.1593	0.2655	0.6903	
91 - 93	-0.1798	0.2785	0.7368	
91 - 90	-0.0398	0.4249	0.8895	
89 - 91	-0.6068	-0.0845	0.4378	
89 - 88	-0.5261	0.0535	0.6331	
89 - 87	-0.4929	0.1012	0.6953	
89 - 92	-0.3413	0.1810	0.7033	
89 - 93	-0.3560	0.1939	0.7439	
89 - 90	-0.2149	0.3403	0.8956	
Analysis of Variance Procedure				
YEAR Comparison	Simultaneous Lower Confidence Limit		Simultaneous Difference Between Means Upper Confidence Limit	
	Limit	Means	Limit	
88 - 91	-0.6315	-0.1380	0.3556	
88 - 89	-0.6331	-0.0535	0.5261	
88 - 87	-0.5213	0.0477	0.6168	
88 - 92	-0.3660	0.1275	0.6211	
88 - 93	-0.3822	0.1405	0.6632	
88 - 90	-0.2414	0.2869	0.8152	
87 - 91	-0.6962	-0.1857	0.3248	
87 - 89	-0.6953	-0.1012	0.4929	
87 - 88	-0.6168	-0.0477	0.5213	
87 - 92	-0.4307	0.0798	0.5903	
Analysis of Variance Procedure				
YEAR Comparison	Simultaneous Lower Confidence Limit		Simultaneous Difference Between Means Upper Confidence Limit	
	Limit	Means	Limit	
87 - 93	-0.4460	0.0927	0.6315	
87 - 90	-0.3050	0.2391	0.7833	
92 - 91	-0.6903	-0.2655	0.1593	
92 - 89	-0.7033	-0.1810	0.3413	
92 - 88	-0.6211	-0.1275	0.3660	
92 - 87	-0.5903	-0.0798	0.4307	
92 - 93	-0.4453	0.0130	0.4713	
92 - 90	-0.3053	0.1594	0.6240	
93 - 91	-0.7368	-0.2785	0.1798	
Analysis of Variance Procedure				
YEAR Comparison	Simultaneous Lower Confidence Limit		Simultaneous Difference Between Means Upper Confidence Limit	
	Limit	Means	Limit	
93 - 89	-0.7439	-0.1939	0.3560	
93 - 88	-0.6632	-0.1405	0.3822	
93 - 87	-0.6315	-0.0927	0.4460	
93 - 92	-0.4713	-0.0130	0.4453	
93 - 90	-0.3491	0.1464	0.6419	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
90 - 91	-0.8895	-0.4249	0.0398	
90 - 89	-0.8956	-0.3403	0.2149	
90 - 88	-0.8152	-0.2869	0.2414	
90 - 87	-0.7833	-0.2391	0.3050	
90 - 92	-0.6240	-0.1594	0.3053	
90 - 93	-0.6419	-0.1464	0.3491	
Analysis of Variance Procedure				
Bonferroni (Dunn) T tests for variable: F6				
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.				
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.873741				
Critical Value of T= 3.05646				
Comparisons significant at the 0.05 level are indicated by '****'.				
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
91 - 89	-0.4543	0.0845	0.6234	
91 - 88	-0.3712	0.1380	0.6472	
91 - 87	-0.3410	0.1857	0.7124	
91 - 92	-0.1727	0.2655	0.7037	
91 - 93	-0.1944	0.2785	0.7513	
91 - 90	-0.0546	0.4249	0.9043	
89 - 91	-0.6234	-0.0845	0.4543	
89 - 88	-0.5445	0.0535	0.6515	
89 - 87	-0.5118	0.1012	0.7142	
89 - 92	-0.3579	0.1810	0.7199	
89 - 93	-0.3734	0.1939	0.7613	
89 - 90	-0.2325	0.3403	0.9132	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
88 - 91	-0.6472	-0.1380	0.3712	
88 - 89	-0.6515	-0.0535	0.5445	
88 - 87	-0.5393	0.0477	0.6348	
88 - 92	-0.3817	0.1275	0.6367	
88 - 93	-0.3988	0.1405	0.6797	
88 - 90	-0.2582	0.2869	0.8319	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
87 - 91	-0.7124	-0.1857	0.3410
87 - 89	-0.7142	-0.1012	0.5118
87 - 88	-0.6348	-0.0477	0.5393
87 - 92	-0.4469	0.0798	0.6065
87 - 93	-0.4631	0.0927	0.6486
87 - 90	-0.3223	0.2391	0.8006
Analysis of Variance Procedure			
YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
92 - 91	-0.7037	-0.2655	0.1727
92 - 89	-0.7199	-0.1810	0.3579
92 - 88	-0.6367	-0.1275	0.3817
92 - 87	-0.6065	-0.0798	0.4469
92 - 93	-0.4599	0.0130	0.4858
92 - 90	-0.3201	0.1594	0.6388
93 - 91	-0.7513	-0.2785	0.1944
93 - 89	-0.7613	-0.1939	0.3734
93 - 88	-0.6797	-0.1405	0.3988
93 - 87	-0.6486	-0.0927	0.4631
93 - 92	-0.4858	-0.0130	0.4599
93 - 90	-0.3648	0.1464	0.6576
Analysis of Variance Procedure			
YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
90 - 91	-0.9043	-0.4249	0.0546
90 - 89	-0.9132	-0.3403	0.2325
90 - 88	-0.8319	-0.2869	0.2582
90 - 87	-0.8006	-0.2391	0.3223
90 - 92	-0.6388	-0.1594	0.3201
90 - 93	-0.6576	-0.1464	0.3648
Analysis of Variance Procedure			
Scheffe's test for variable: F6			
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.			
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.873741			
Critical Value of F= 2.11991			
Comparisons significant at the 0.05 level are indicated by '***'.			

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
91 - 89	-0.5443	0.0845	0.7133
91 - 88	-0.4562	0.1380	0.7321
91 - 87	-0.4289	0.1857	0.8003
91 - 92	-0.2459	0.2655	0.7769
91 - 93	-0.2733	0.2785	0.8302
91 - 90	-0.1346	0.4249	0.9843
89 - 91	-0.7133	-0.0845	0.5443
89 - 88	-0.6443	0.0535	0.7512
89 - 87	-0.6140	0.1012	0.8164
89 - 92	-0.4478	0.1810	0.8098
89 - 93	-0.4681	0.1939	0.8560
89 - 90	-0.3281	0.3403	1.0088
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
88 - 91	-0.7321	-0.1380	0.4562
88 - 89	-0.7512	-0.0535	0.6443
88 - 87	-0.6373	0.0477	0.7327
88 - 92	-0.4666	0.1275	0.7217
88 - 93	-0.4887	0.1405	0.7697
88 - 90	-0.3491	0.2869	0.9228
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
87 - 91	-0.8003	-0.1857	0.4289
87 - 89	-0.8164	-0.1012	0.6140
87 - 88	-0.7327	-0.0477	0.6373
87 - 92	-0.5348	0.0798	0.6944
87 - 93	-0.5558	0.0927	0.7413
87 - 90	-0.4160	0.2391	0.8942
92 - 91	-0.7769	-0.2655	0.2459
92 - 89	-0.8098	-0.1810	0.4478
92 - 88	-0.7217	-0.1275	0.4666
92 - 87	-0.6944	-0.0798	0.5348
92 - 93	-0.5388	0.0130	0.5647
92 - 90	-0.4001	0.1594	0.7188
93 - 91	-0.8302	-0.2785	0.2733
93 - 89	-0.8560	-0.1939	0.4681
93 - 88	-0.7697	-0.1405	0.4887
93 - 87	-0.7413	-0.0927	0.5558
93 - 92	-0.5647	-0.0130	0.5388
93 - 90	-0.4501	0.1464	0.7429

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison	Limit	Means	Limit
90 - 91	-0.9843	-0.4249	0.1346
90 - 89	-1.0088	-0.3403	0.3281
90 - 88	-0.9228	-0.2869	0.3491
90 - 87	-0.8942	-0.2391	0.4160
90 - 92	-0.7188	-0.1594	0.4001
90 - 93	-0.7429	-0.1464	0.4501
Analysis of Variance Procedure			
Tukey's Studentized Range (HSD) Test for variable: F7			
NOTE: This test controls the type I experimentwise error rate.			
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.996177			
Critical Value of Studentized Range= 4.190			
Comparisons significant at the 0.05 level are indicated by '***'.			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison	Limit	Means	Limit
93 - 92	-0.1900	0.2993	0.7887
93 - 89	-0.2347	0.3525	0.9396
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison	Limit	Means	Limit
93 - 88	-0.1565	0.4016	0.9597
93 - 91	-0.0167	0.4727	0.9620
93 - 87	-0.0509	0.5244	1.0996
93 - 90	0.1857	0.7148	1.2439 ***
92 - 93	-0.7887	-0.2993	0.1900
92 - 89	-0.5046	0.0531	0.6108
92 - 88	-0.4247	0.1023	0.6293
92 - 91	-0.2802	0.1734	0.6269
92 - 87	-0.3201	0.2250	0.7702
92 - 90	-0.0807	0.4155	0.9117
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison	Limit	Means	Limit
89 - 93	-0.9396	-0.3525	0.2347
89 - 92	-0.6108	-0.0531	0.5046
89 - 88	-0.5698	0.0491	0.6680
89 - 91	-0.4375	0.1202	0.6779
89 - 87	-0.4625	0.1719	0.8063
89 - 90	-0.2305	0.3624	0.9552

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
88 - 93	-0.9597	-0.4016	0.1565	
88 - 92	-0.6293	-0.1023	0.4247	
88 - 89	-0.6680	-0.0491	0.5698	
88 - 91	-0.4559	0.0711	0.5981	
88 - 87	-0.4848	0.1228	0.7304	
88 - 90	-0.2509	0.3132	0.8773	
91 - 93	-0.9620	-0.4727	0.0167	
91 - 92	-0.6269	-0.1734	0.2802	
91 - 89	-0.6779	-0.1202	0.4375	
91 - 88	-0.5981	-0.0711	0.4559	
91 - 87	-0.4934	0.0517	0.5968	
91 - 90	-0.2541	0.2421	0.7383	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
87 - 93	-1.0996	-0.5244	0.0509	
87 - 92	-0.7702	-0.2250	0.3201	
87 - 89	-0.8063	-0.1719	0.4625	
87 - 88	-0.7304	-0.1228	0.4848	
87 - 91	-0.5968	-0.0517	0.4934	
87 - 90	-0.3906	0.1904	0.7715	
90 - 93	-1.2439	-0.7148	-0.1857	***
90 - 92	-0.9117	-0.4155	0.0807	
90 - 89	-0.9552	-0.3624	0.2305	
90 - 88	-0.8773	-0.3132	0.2509	
90 - 91	-0.7383	-0.2421	0.2541	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
90 - 87	-0.7715	-0.1904	0.3906	
Analysis of Variance Procedure				
Bonferroni (Dunn) T tests for variable: F7				
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.				
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.996177				
Critical Value of T= 3.05646				
Comparisons significant at the 0.05 level are indicated by ****.				

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit
Comparison			
93 - 92	-0.2055	0.2993	0.8042
93 - 89	-0.2533	0.3525	0.9582
93 - 88	-0.1742	0.4016	0.9774
93 - 91	-0.0322	0.4727	0.9776
93 - 87	-0.0691	0.5244	1.1178
93 - 90	0.1689	0.7148	1.2607 ***
92 - 93	-0.8042	-0.2993	0.2055
92 - 89	-0.5222	0.0531	0.6285
92 - 88	-0.4414	0.1023	0.6460
92 - 91	-0.2946	0.1734	0.6413
92 - 87	-0.3374	0.2250	0.7874
92 - 90	-0.0964	0.4155	0.9274
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit
Comparison			
89 - 93	-0.9582	-0.3525	0.2533
89 - 92	-0.6285	-0.0531	0.5222
89 - 88	-0.5894	0.0491	0.6876
89 - 91	-0.4551	0.1202	0.6956
89 - 87	-0.4826	0.1719	0.8264
89 - 90	-0.2493	0.3624	0.9740
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit
Comparison			
88 - 93	-0.9774	-0.4016	0.1742
88 - 92	-0.6460	-0.1023	0.4414
88 - 89	-0.6876	-0.0491	0.5894
88 - 91	-0.4726	0.0711	0.6148
88 - 87	-0.5041	0.1228	0.7496
88 - 90	-0.2687	0.3132	0.8952
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit
Comparison			
91 - 93	-0.9776	-0.4727	0.0322
91 - 92	-0.6413	-0.1734	0.2946
91 - 89	-0.6956	-0.1202	0.4551
91 - 88	-0.6148	-0.0711	0.4726
91 - 87	-0.5107	0.0517	0.6141
91 - 90	-0.2698	0.2421	0.7540
87 - 93	-1.1178	-0.5244	0.0691
87 - 92	-0.7874	-0.2250	0.3374
87 - 89	-0.8264	-0.1719	0.4826
87 - 88	-0.7496	-0.1228	0.5041
87 - 91	-0.6141	-0.0517	0.5107
87 - 90	-0.4090	0.1904	0.7899

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
90 - 93	-1.2607	-0.7148	-0.1689	***
90 - 92	-0.9274	-0.4155	0.0964	
90 - 89	-0.9740	-0.3624	0.2493	
90 - 88	-0.8952	-0.3132	0.2687	
90 - 91	-0.7540	-0.2421	0.2698	
90 - 87	-0.7899	-0.1904	0.4090	
Analysis of Variance Procedure				
Scheffe's test for variable: F7				
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.				
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.996177				
Critical Value of F= 2.11991				
Comparisons significant at the 0.05 level are indicated by '***'.				
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
93 - 92	-0.2898	0.2993	0.8884	
93 - 89	-0.3544	0.3525	1.0593	
93 - 88	-0.2703	0.4016	1.0734	
93 - 91	-0.1164	0.4727	1.0618	
93 - 87	-0.1681	0.5244	1.2169	
93 - 90	0.0779	0.7148	1.3518	***
92 - 93	-0.8884	-0.2993	0.2898	
92 - 89	-0.6183	0.0531	0.7245	
92 - 88	-0.5322	0.1023	0.7367	
92 - 91	-0.3727	0.1734	0.7194	
92 - 87	-0.4312	0.2250	0.8813	
92 - 90	-0.1818	0.4155	1.0128	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
89 - 93	-1.0593	-0.3525	0.3544	
89 - 92	-0.7245	-0.0531	0.6183	
89 - 88	-0.6959	0.0491	0.7942	
89 - 91	-0.5512	0.1202	0.7916	
89 - 87	-0.5918	0.1719	0.9356	
89 - 90	-0.3514	0.3624	1.0761	
88 - 93	-1.0734	-0.4016	0.2703	
88 - 92	-0.7367	-0.1023	0.5322	
88 - 89	-0.7942	-0.0491	0.6959	
88 - 91	-0.5633	0.0711	0.7055	
88 - 87	-0.6087	0.1228	0.8542	
88 - 90	-0.3658	0.3132	0.9923	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Comparison Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
91 - 93	-1.0618	-0.4727	0.1164	
91 - 92	-0.7194	-0.1734	0.3727	
91 - 89	-0.7916	-0.1202	0.5512	
91 - 88	-0.7055	-0.0711	0.5633	
91 - 87	-0.6046	0.0517	0.7079	
91 - 90	-0.3552	0.2421	0.8394	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Comparison Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
87 - 93	-1.2169	-0.5244	0.1681	
87 - 92	-0.8813	-0.2250	0.4312	
87 - 89	-0.9356	-0.1719	0.5918	
87 - 88	-0.8542	-0.1228	0.6087	
87 - 91	-0.7079	-0.0517	0.6046	
87 - 90	-0.5091	0.1904	0.8899	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Comparison Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
90 - 93	-1.3518	-0.7148	-0.0779	***
90 - 92	-1.0128	-0.4155	0.1818	
90 - 89	-1.0761	-0.3624	0.3514	
90 - 88	-0.9923	-0.3132	0.3658	
90 - 91	-0.8394	-0.2421	0.3552	
90 - 87	-0.8899	-0.1904	0.5091	
Analysis of Variance Procedure				
Tukey's Studentized Range (HSD) Test for variable: F8				
NOTE: This test controls the type I experimentwise error rate.				
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.916373				
Critical Value of Studentized Range= 4.190				
Comparisons significant at the 0.05 level are indicated by "****".				
YEAR	Simultaneous Lower Confidence Comparison Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
88 - 90	-0.5210	0.0201	0.5611	
88 - 92	-0.4628	0.0426	0.5480	
88 - 89	-0.4816	0.1120	0.7056	
88 - 93	-0.3719	0.1634	0.6986	
88 - 87	-0.3723	0.2104	0.7931	
88 - 91	-0.1504	0.3550	0.8604	

(CONTINUE) TABLE 3: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
90 - 88	-0.5611	-0.0201	0.5210
90 - 92	-0.4533	0.0225	0.4984
90 - 89	-0.4767	0.0920	0.6606
90 - 93	-0.3641	0.1433	0.6508
90 - 87	-0.3669	0.1903	0.7476
90 - 91	-0.1409	0.3349	0.8108
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
92 - 88	-0.5480	-0.0426	0.4628
92 - 90	-0.4984	-0.0225	0.4533
92 - 89	-0.4655	0.0694	0.6043
92 - 93	-0.3486	0.1208	0.5901
92 - 87	-0.3550	0.1678	0.6906
92 - 91	-0.1226	0.3124	0.7474
89 - 88	-0.7056	-0.1120	0.4816
89 - 90	-0.6606	-0.0920	0.4767
89 - 92	-0.6043	-0.0694	0.4655
89 - 93	-0.5118	0.0514	0.6145
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
89 - 87	-0.5101	0.0984	0.7068
89 - 91	-0.2919	0.2430	0.7779
93 - 88	-0.6986	-0.1634	0.3719
93 - 90	-0.6508	-0.1433	0.3641
93 - 92	-0.5901	-0.1208	0.3486
93 - 89	-0.6145	-0.0514	0.5118
93 - 87	-0.5047	0.0470	0.5987
93 - 91	-0.2777	0.1916	0.6610
87 - 88	-0.7931	-0.2104	0.3723
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
87 - 90	-0.7476	-0.1903	0.3669
87 - 92	-0.6906	-0.1678	0.3550
87 - 89	-0.7068	-0.0984	0.5101
87 - 93	-0.5987	-0.0470	0.5047
87 - 91	-0.3782	0.1446	0.6674

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit		Simultaneous Difference Between Means Upper Confidence Limit	
91 - 88	-0.8604	-0.3550		0.1504
91 - 90	-0.8108	-0.3349		0.1409
91 - 92	-0.7474	-0.3124		0.1226
91 - 89	-0.7779	-0.2430		0.2919
91 - 93	-0.6610	-0.1916		0.2777
91 - 87	-0.6674	-0.1446		0.3782

Analysis of Variance Procedure

Bonferroni (Dunn) T tests for variable: F8

NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.

Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.916373
Critical Value of T= 3.05646

Comparisons significant at the 0.05 level are indicated by ****.

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit		Simultaneous Difference Between Means Upper Confidence Limit	
88 - 90	-0.5381	0.0201		0.5782
88 - 92	-0.4789	0.0426		0.5641
88 - 89	-0.5004	0.1120		0.7244
88 - 93	-0.3889	0.1634		0.7156
88 - 87	-0.3908	0.2104		0.8116
88 - 91	-0.1665	0.3550		0.8765
90 - 88	-0.5732	-0.0201		0.5381
90 - 92	-0.4684	0.0225		0.5135
90 - 89	-0.4947	0.0920		0.6786
90 - 93	-0.3802	0.1433		0.6669
90 - 87	-0.3846	0.1903		0.7653
90 - 91	-0.1560	0.3349		0.8259

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit		Simultaneous Difference Between Means Upper Confidence Limit	
92 - 88	-0.5641	-0.0426		0.4789
92 - 90	-0.5135	-0.0225		0.4684
92 - 89	-0.4824	0.0694		0.6213
92 - 93	-0.3635	0.1208		0.6050
92 - 87	-0.3716	0.1678		0.7072
92 - 91	-0.1364	0.3124		0.7612

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit	
Comparison				
89 - 88	-0.7244	-0.1120	0.5004	
89 - 90	-0.6786	-0.0920	0.4947	
89 - 92	-0.6213	-0.0694	0.4824	
89 - 93	-0.5297	0.0314	0.6324	
89 - 87	-0.5294	0.0984	0.7261	
89 - 91	-0.3089	0.2430	0.7948	
93 - 88	-0.7156	-0.1634	0.3889	
93 - 90	-0.6669	-0.1433	0.3802	
93 - 92	-0.6050	-0.1208	0.3635	
93 - 89	-0.6324	-0.0314	0.5297	
93 - 87	-0.5222	0.0470	0.6162	
93 - 91	-0.2926	0.1916	0.6759	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit	
Comparison				
87 - 88	-0.8116	-0.2104	0.3908	
87 - 90	-0.7653	-0.1903	0.3846	
87 - 92	-0.7072	-0.1678	0.3716	
87 - 89	-0.7261	-0.0984	0.5294	
87 - 93	-0.6162	-0.0470	0.5222	
87 - 91	-0.3948	0.1446	0.6840	
91 - 88	-0.8765	-0.3550	0.1665	
91 - 90	-0.8259	-0.3349	0.1560	
91 - 92	-0.7612	-0.3124	0.1364	
91 - 89	-0.7948	-0.2430	0.3089	
91 - 93	-0.6759	-0.1916	0.2926	
91 - 87	-0.6840	-0.1446	0.3948	
Analysis of Variance Procedure				
Scheffe's test for variable: F8				
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.				
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.916373				
Critical Value of F= 2.11991				
Comparisons significant at the 0.05 level are indicated by "****".				
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Upper Confidence Limit	
Comparison				
88 - 90	-0.6312	0.0201	0.6714	
88 - 92	-0.5659	0.0426	0.6311	
88 - 89	-0.6026	0.1120	0.8266	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
88 - 93	-0.4810	0.1634	0.8078
88 - 87	-0.4911	0.2104	0.9119
88 - 91	-0.2535	0.3550	0.9635
90 - 88	-0.6714	-0.0201	0.6312
90 - 92	-0.5504	0.0225	0.5954
90 - 89	-0.5926	0.0920	0.7765
90 - 93	-0.4676	0.1433	0.7542
90 - 87	-0.4806	0.1903	0.8612
90 - 91	-0.2379	0.3349	0.9078
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
92 - 88	-0.6511	-0.0426	0.5659
92 - 90	-0.5954	-0.0225	0.5504
92 - 89	-0.5745	0.0694	0.7133
92 - 93	-0.4442	0.1208	0.6858
92 - 87	-0.4616	0.1678	0.7972
92 - 91	-0.2113	0.3124	0.8361
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
89 - 88	-0.8266	-0.1120	0.6026
89 - 90	-0.7765	-0.0920	0.5926
89 - 92	-0.7133	-0.0694	0.5745
89 - 93	-0.6266	0.0514	0.7293
89 - 87	-0.6341	0.0984	0.8309
89 - 91	-0.4009	0.2430	0.8869
93 - 88	-0.8078	-0.1634	0.4810
93 - 90	-0.7542	-0.1433	0.4676
93 - 92	-0.6858	-0.1208	0.4442
93 - 89	-0.7293	-0.0514	0.6266
93 - 87	-0.6172	0.0470	0.7112
93 - 91	-0.3734	0.1916	0.7567
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
87 - 88	-0.9119	-0.2104	0.4911
87 - 90	-0.8612	-0.1903	0.4806
87 - 92	-0.7972	-0.1678	0.4616
87 - 89	-0.8309	-0.0984	0.6341

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
87 - 93	-0.7112	-0.0470	0.6172
87 - 91	-0.4848	0.1446	0.7740
91 - 88	-0.9635	-0.3550	0.2535
91 - 90	-0.9078	-0.3349	0.2379
91 - 92	-0.8361	-0.3124	0.2113
91 - 89	-0.8869	-0.2430	0.4009
91 - 93	-0.7567	-0.1916	0.3734
91 - 87	-0.7740	-0.1446	0.4848
Analysis of Variance Procedure			
Tukey's Studentized Range (HSD) Test for variable: F15			
NOTE: This test controls the type I experimentwise error rate.			
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.821195			
Critical Value of Studentized Range= 4.190			
Comparisons significant at the 0.05 level are indicated by "****".			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
90 - 93	-0.2200	0.2604	0.7408
90 - 91	-0.1544	0.2961	0.7465
90 - 92	-0.0407	0.4098	0.8603
90 - 88	-0.0986	0.4135	0.9257
90 - 89	-0.0081	0.5302	1.0684
90 - 87	0.0216	0.5491	1.0767 ***
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
93 - 90	-0.7408	-0.2604	0.2200
93 - 91	-0.4086	0.0357	0.4800
93 - 92	-0.2949	0.1494	0.5937
93 - 88	-0.3536	0.1532	0.6599
93 - 89	-0.2633	0.2698	0.8029
93 - 87	-0.2335	0.2888	0.8110
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Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
91 - 90	-0.7465	-0.2961	0.1544
91 - 93	-0.4800	-0.0357	0.4086

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Comparison	Difference Between Means	Simultaneous Upper Confidence Limit	
91 - 92	-0.2981	0.1137	0.5255	
91 - 88	-0.3610	0.1175	0.5960	
91 - 89	-0.2722	0.2341	0.7405	
91 - 87	-0.2418	0.2531	0.7480	
92 - 90	-0.8603	-0.4098	0.0407	
92 - 93	-0.5937	-0.1494	0.2949	
92 - 91	-0.5255	-0.1137	0.2981	
92 - 88	-0.4747	0.0038	0.4822	
92 - 89	-0.3860	0.1204	0.6267	
92 - 87	-0.3556	0.1394	0.6343	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Comparison	Difference Between Means	Simultaneous Upper Confidence Limit	
88 - 90	-0.9257	-0.4135	0.0986	
88 - 93	-0.6599	-0.1532	0.3536	
88 - 91	-0.5960	-0.1175	0.3610	
88 - 92	-0.4822	-0.0038	0.4747	
88 - 89	-0.4453	0.1166	0.6785	
88 - 87	-0.4160	0.1356	0.6872	
89 - 90	-1.0684	-0.5302	0.0081	
89 - 93	-0.8029	-0.2698	0.2633	
89 - 91	-0.7405	-0.2341	0.2722	
89 - 92	-0.6267	-0.1204	0.3860	
89 - 88	-0.6785	-0.1166	0.4453	
89 - 87	-0.5570	0.0190	0.5950	
87 - 90	-1.0767	-0.5491	-0.0216	***
87 - 93	-0.8110	-0.2888	0.2335	
87 - 91	-0.7480	-0.2531	0.2418	
87 - 92	-0.6343	-0.1394	0.3556	
87 - 88	-0.6872	-0.1356	0.4160	
87 - 89	-0.5950	-0.0190	0.5570	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Comparison	Difference Between Means	Simultaneous Upper Confidence Limit	
Analysis of Variance Procedure				
Bonferroni (Dunn) T tests for variable: F15				
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.				
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.821195				
Critical Value of T= 3.05646				
Comparisons significant at the 0.05 level are indicated by '***'.				

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
90 - 93	-0.2352	0.2604	0.7560	
90 - 91	-0.1687	0.2961	0.7608	
90 - 92	-0.0550	0.4098	0.8745	
90 - 88	-0.1148	0.4135	0.9419	
90 - 89	-0.0252	0.5302	1.0855	
90 - 87	0.0049	0.5491	1.0934	***
93 - 90	-0.7560	-0.2604	0.2352	
93 - 91	-0.4227	0.0357	0.4941	
93 - 92	-0.3090	0.1494	0.6078	
93 - 88	-0.3696	0.1532	0.6759	
93 - 89	-0.2802	0.2698	0.8198	
93 - 87	-0.2501	0.2888	0.8276	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
91 - 90	-0.7608	-0.2961	0.1687	
91 - 93	-0.4941	-0.0357	0.4227	
91 - 92	-0.3111	0.1137	0.5386	
91 - 88	-0.3762	0.1175	0.6111	
91 - 89	-0.2883	0.2341	0.7565	
91 - 87	-0.2575	0.2531	0.7637	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
92 - 90	-0.8745	-0.4098	0.0550	
92 - 93	-0.6078	-0.1494	0.3090	
92 - 91	-0.5386	-0.1137	0.3111	
92 - 88	-0.4899	0.0038	0.4974	
92 - 89	-0.4020	0.1204	0.6428	
92 - 87	-0.3713	0.1394	0.6500	
88 - 90	-0.9419	-0.4135	0.1148	
88 - 93	-0.6759	-0.1532	0.3696	
88 - 91	-0.6111	-0.1175	0.3762	
88 - 92	-0.4974	-0.0038	0.4899	
88 - 89	-0.4631	0.1166	0.6964	
88 - 87	-0.4335	0.1356	0.7047	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
89 - 90	-1.0855	-0.5302	0.0252	
89 - 93	-0.8198	-0.2698	0.2802	
89 - 91	-0.7565	-0.2341	0.2883	
89 - 92	-0.6428	-0.1204	0.4020	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
89 - 88	-0.6964	-0.1166	0.4631
89 - 87	-0.5753	0.0190	0.6132
87 - 90	-1.0934	-0.5491	-0.0049 ***
87 - 93	-0.8276	-0.2888	0.2501
87 - 91	-0.7637	-0.2531	0.2575
87 - 92	-0.6500	-0.1394	0.3713
87 - 88	-0.7047	-0.1356	0.4335
87 - 89	-0.6132	-0.0190	0.5753
Analysis of Variance Procedure			
Scheffe's test for variable: F15			
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.			
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 0.821195			
Critical Value of F= 2.11991			
Comparisons significant at the 0.05 level are indicated by '***'.			
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Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
90 - 93	-0.3179	0.2604	0.8387
90 - 91	-0.2463	0.2961	0.8384
90 - 92	-0.1326	0.4098	0.9521
90 - 88	-0.2030	0.4135	1.0301
90 - 89	-0.1179	0.5302	1.1782
90 - 87	-0.0860	0.5491	1.1842
93 - 90	-0.8387	-0.2604	0.3179
93 - 91	-0.4992	0.0357	0.5705
93 - 92	-0.3855	0.1494	0.6843
93 - 88	-0.4569	0.1532	0.7632
93 - 89	-0.3720	0.2698	0.9116
93 - 87	-0.3400	0.2888	0.9175
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
91 - 90	-0.8384	-0.2961	0.2463
91 - 93	-0.5705	-0.0357	0.4992
91 - 92	-0.3820	0.1137	0.6095
91 - 88	-0.4585	0.1175	0.6935
91 - 89	-0.3755	0.2341	0.8437
91 - 87	-0.3427	0.2531	0.8489

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
92 - 90	-0.9521	-0.4098	0.1326
92 - 93	-0.6843	-0.1494	0.3855
92 - 91	-0.6095	-0.1137	0.3820
92 - 88	-0.5722	0.0038	0.5798
92 - 89	-0.4892	0.1204	0.7300
92 - 87	-0.4565	0.1394	0.7352
88 - 90	-1.0301	-0.4135	0.2030
88 - 93	-0.7632	-0.1532	0.4569
88 - 91	-0.6935	-0.1175	0.4585
88 - 92	-0.5798	-0.0038	0.5722
88 - 89	-0.5598	0.1166	0.7931
88 - 87	-0.5285	0.1356	0.7997
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
89 - 90	-1.1782	-0.5302	0.1179
89 - 93	-0.9116	-0.2698	0.3720
89 - 91	-0.8437	-0.2341	0.3755
89 - 92	-0.7300	-0.1204	0.4892
89 - 88	-0.7931	-0.1166	0.5598
89 - 87	-0.6744	0.0190	0.7124
87 - 90	-1.1842	-0.5491	0.0860
87 - 93	-0.9175	-0.2838	0.3400
87 - 91	-0.8489	-0.2531	0.3427
87 - 92	-0.7352	-0.1394	0.4565
87 - 88	-0.7997	-0.1356	0.5285
87 - 89	-0.7124	-0.0190	0.6744
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
Analysis of Variance Procedure			
Tukey's Studentized Range (HSD) Test for variable: F16			
NOTE: This test controls the type I experimentwise error rate.			
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 1.071921			
Critical Value of Studentized Range= 4.190			
Comparisons significant at the 0.05 level are indicated by '****'.			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
88 - 87	-0.5712	0.0590	0.6893
88 - 91	-0.4084	0.1382	0.6849
88 - 89	-0.4437	0.1983	0.8403
88 - 92	-0.3476	0.1991	0.7458
88 - 90	-0.3445	0.2406	0.8258
88 - 93	-0.3054	0.2736	0.8525
87 - 88	-0.6893	-0.0590	0.5712
87 - 91	-0.4863	0.0792	0.6446
87 - 89	-0.5188	0.1393	0.7974
87 - 92	-0.4254	0.1401	0.7055
87 - 90	-0.4211	0.1816	0.7843
87 - 93	-0.3822	0.2145	0.8112
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
91 - 88	-0.6849	-0.1382	0.4084
91 - 87	-0.6446	-0.0792	0.4863
91 - 89	-0.5184	0.0601	0.6386
91 - 92	-0.4096	0.0609	0.5314
91 - 90	-0.4123	0.1024	0.6171
91 - 93	-0.3723	0.1354	0.6430
89 - 88	-0.8403	-0.1983	0.4437
89 - 87	-0.7974	-0.1393	0.5188
89 - 91	-0.6386	-0.0601	0.5184
89 - 92	-0.5777	0.0008	0.5793
89 - 90	-0.5727	0.0423	0.6573
89 - 93	-0.5339	0.0752	0.6843
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
92 - 88	-0.7458	-0.1991	0.3476
92 - 87	-0.7055	-0.1401	0.4254
92 - 91	-0.5314	-0.0609	0.4096
92 - 89	-0.5793	-0.0008	0.5777
92 - 90	-0.4731	0.0415	0.5562
92 - 93	-0.4332	0.0745	0.5821
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
90 - 88	-0.8258	-0.2406	0.3445
90 - 87	-0.7843	-0.1816	0.4211

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
90 - 91	-0.6171	-0.1024	0.4123
90 - 89	-0.6373	-0.0423	0.5727
90 - 92	-0.5562	-0.0415	0.4731
90 - 93	-0.5159	0.0329	0.5818
93 - 88	-0.8525	-0.2736	0.3054
93 - 87	-0.8112	-0.2145	0.3822
93 - 91	-0.6430	-0.1354	0.3723
93 - 89	-0.6843	-0.0752	0.5339
93 - 92	-0.5821	-0.0745	0.4332
93 - 90	-0.5818	-0.0329	0.5159
Analysis of Variance Procedure			
Bonferroni (Dunn) T tests for variable: F16			
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.			
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 1.071921			
Critical Value of T= 3.05646			
Comparisons significant at the 0.05 level are indicated by '***'.			
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
88 - 87	-0.5912	0.0590	0.7093
88 - 91	-0.4258	0.1382	0.7022
88 - 89	-0.4640	0.1983	0.8607
88 - 92	-0.3649	0.1991	0.7631
88 - 90	-0.3630	0.2406	0.8443
88 - 93	-0.3237	0.2736	0.8708
87 - 88	-0.7093	-0.0590	0.5912
87 - 91	-0.5042	0.0792	0.6626
87 - 89	-0.5396	0.1393	0.8182
87 - 92	-0.4433	0.1401	0.7234
87 - 90	-0.4402	0.1816	0.8034
87 - 93	-0.4011	0.2145	0.8301
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
91 - 88	-0.7022	-0.1382	0.4258
91 - 87	-0.6626	-0.0792	0.5042
91 - 89	-0.5367	0.0601	0.6570
91 - 92	-0.4245	0.0609	0.5463
91 - 90	-0.4286	0.1024	0.6334
91 - 93	-0.3884	0.1354	0.6591

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
89 - 88	-0.8607	-0.1983	0.4640
89 - 87	-0.8182	-0.1393	0.5396
89 - 91	-0.6570	-0.0601	0.5367
89 - 92	-0.5961	0.0008	0.5976
89 - 90	-0.5922	0.0423	0.6768
89 - 93	-0.5532	0.0732	0.7036
92 - 88	-0.7631	-0.1991	0.3649
92 - 87	-0.7234	-0.1401	0.4433
92 - 91	-0.5463	-0.0609	0.4245
92 - 89	-0.5976	-0.0008	0.5961
92 - 90	-0.4895	0.0415	0.5726
92 - 93	-0.4492	0.0745	0.5982
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
90 - 88	-0.8443	-0.2406	0.3630
90 - 87	-0.8034	-0.1816	0.4402
90 - 91	-0.6334	-0.1024	0.4286
90 - 89	-0.6768	-0.0423	0.5922
90 - 92	-0.5726	-0.0415	0.4895
90 - 93	-0.5333	0.0329	0.5992
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
93 - 88	-0.8708	-0.2736	0.3237
93 - 87	-0.8301	-0.2145	0.4011
93 - 91	-0.6591	-0.1354	0.3884
93 - 89	-0.7036	-0.0752	0.5532
93 - 92	-0.5982	-0.0745	0.4492
93 - 90	-0.5992	-0.0329	0.5333
Analysis of Variance Procedure			
Scheffe's test for variable: F16			
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.			
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 1.071921			
Critical Value of F= 2.11991			
Comparisons significant at the 0.05 level are indicated by ****.			
Analysis of Variance Procedure			

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

		Simultaneous	Simultaneous	
		Lower	Difference	Upper
YEAR	Confidence	Between	Confidence	
Comparison	Limit	Means	Limit	
88 - 87	-0.6997	0.0590	0.8178	
88 - 91	-0.5199	0.1382	0.7963	
88 - 89	-0.5745	0.1983	0.9712	
88 - 92	-0.4590	0.1991	0.8572	
88 - 90	-0.4638	0.2406	0.9451	
88 - 93	-0.4234	0.2736	0.9705	
87 - 88	-0.8178	-0.0590	0.6997	
87 - 91	-0.6016	0.0792	0.7599	
87 - 89	-0.6529	0.1393	0.9315	
87 - 92	-0.5407	0.1401	0.8208	
87 - 90	-0.5440	0.1816	0.9072	
87 - 93	-0.5038	0.2145	0.9329	
Analysis of Variance Procedure				
		Simultaneous	Simultaneous	
		Lower	Difference	Upper
YEAR	Confidence	Between	Confidence	
Comparison	Limit	Means	Limit	
91 - 88	-0.7963	-0.1382	0.5199	
91 - 87	-0.7599	-0.0792	0.6016	
91 - 89	-0.6363	0.0601	0.7566	
91 - 92	-0.5055	0.0609	0.6273	
91 - 90	-0.5172	0.1024	0.7220	
91 - 93	-0.4757	0.1354	0.7464	
Analysis of Variance Procedure				
		Simultaneous	Simultaneous	
		Lower	Difference	Upper
YEAR	Confidence	Between	Confidence	
Comparison	Limit	Means	Limit	
89 - 88	-0.9712	-0.1983	0.5745	
89 - 87	-0.9315	-0.1393	0.6529	
89 - 91	-0.7566	-0.0601	0.6363	
89 - 92	-0.6957	0.0008	0.6972	
89 - 90	-0.6980	0.0423	0.7827	
89 - 93	-0.6580	0.0752	0.8085	
92 - 88	-0.8572	-0.1991	0.4590	
92 - 87	-0.8208	-0.1401	0.5407	
92 - 91	-0.6273	-0.0609	0.5055	
92 - 89	-0.6972	-0.0008	0.6957	
92 - 90	-0.5781	0.0415	0.6612	
92 - 93	-0.5366	0.0745	0.6856	
Analysis of Variance Procedure				
		Simultaneous	Simultaneous	
		Lower	Difference	Upper
YEAR	Confidence	Between	Confidence	
Comparison	Limit	Means	Limit	
90 - 88	-0.9451	-0.2406	0.4638	
90 - 87	-0.9072	-0.1816	0.5440	
90 - 91	-0.7220	-0.1024	0.5172	
90 - 89	-0.7827	-0.0423	0.6980	
90 - 92	-0.6612	-0.0415	0.5781	
90 - 93	-0.6278	0.0329	0.6936	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison	Limit	Means	Limit
93 - 88	-0.9705	-0.2736	0.4234
93 - 87	-0.9329	-0.2145	0.5038
93 - 91	-0.7464	-0.1354	0.4757
93 - 89	-0.8085	-0.0752	0.6580
93 - 92	-0.6856	-0.0745	0.5366
93 - 90	-0.6936	-0.0329	0.6278
Analysis of Variance Procedure			
Tukey's Studentized Range (IISD) Test for variable: F18			
NOTE: This test controls the type I experimentwise error rate.			
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 1.118081			
Critical Value of Studentized Range= 4.190			
Comparisons significant at the 0.05 level are indicated by '***'.			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison	Limit	Means	Limit
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison	Limit	Means	Limit
91 - 89	-0.4661	0.1248	0.7156
91 - 92	-0.3259	0.1546	0.6351
91 - 88	-0.3916	0.1667	0.7250
91 - 87	-0.3900	0.1875	0.7650
91 - 93	-0.2775	0.2409	0.7593
91 - 90	-0.1888	0.3369	0.8625
89 - 91	-0.7156	-0.1248	0.4661
89 - 92	-0.5610	0.0298	0.6207
89 - 88	-0.6138	0.0419	0.6976
89 - 87	-0.6094	0.0627	0.7348
89 - 93	-0.5059	0.1161	0.7382
89 - 90	-0.4160	0.2121	0.8402
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
Comparison	Limit	Means	Limit
92 - 91	-0.6351	-0.1546	0.3259
92 - 89	-0.6207	-0.0298	0.5610
92 - 88	-0.5462	0.0121	0.5704
92 - 87	-0.5446	0.0329	0.6104
92 - 93	-0.4321	0.0863	0.6048
92 - 90	-0.3434	0.1823	0.7079

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
--------------------	---	---	---

88 - 91	-0.7250	-0.1667	0.3916
88 - 89	-0.6976	-0.0419	0.6138
88 - 92	-0.5704	-0.0121	0.5462
88 - 87	-0.6229	0.0208	0.6645
88 - 93	-0.5170	0.0742	0.6655
88 - 90	-0.4274	0.1702	0.7678

87 - 91	-0.7650	-0.1875	0.3900
87 - 89	-0.7348	-0.0627	0.6094
87 - 92	-0.6104	-0.0329	0.5446
87 - 88	-0.6645	-0.0208	0.6229
87 - 93	-0.5560	0.0534	0.6629
87 - 90	-0.4662	0.1494	0.7650

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
--------------------	---	---	---

93 - 91	-0.7593	-0.2409	0.2775
93 - 89	-0.7382	-0.1161	0.5059
93 - 92	-0.6048	-0.0863	0.4321
93 - 88	-0.6655	-0.0742	0.5170
93 - 87	-0.6629	-0.0534	0.5560
93 - 90	-0.4646	0.0959	0.6565

90 - 91	-0.8625	-0.3369	0.1888
90 - 89	-0.8402	-0.2121	0.4160
90 - 92	-0.7079	-0.1823	0.3434
90 - 88	-0.7678	-0.1702	0.4274
90 - 87	-0.7650	-0.1494	0.4662
90 - 93	-0.6565	-0.0959	0.4646

Analysis of Variance Procedure

YEAR Comparison	Simultaneous Lower Confidence Limit	Simultaneous Difference Between Means	Simultaneous Upper Confidence Limit
--------------------	---	---	---

Analysis of Variance Procedure

Bonferroni (Dunn) T tests for variable: F18

NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.

Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 1.118081
Critical Value of T= 3.05646

Comparisons significant at the 0.05 level are indicated by ****.

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
91 - 89	-0.4848	0.1248	0.7343
91 - 92	-0.3412	0.1546	0.6503
91 - 88	-0.4093	0.1667	0.7427
91 - 87	-0.4084	0.1875	0.7833
91 - 93	-0.2940	0.2409	0.7758
91 - 90	-0.2055	0.3369	0.8792
89 - 91	-0.7343	-0.1248	0.4848
89 - 92	-0.5797	0.0298	0.6394
89 - 88	-0.6346	0.0419	0.7184
89 - 87	-0.6307	0.0627	0.7561
89 - 93	-0.5256	0.1161	0.7579
89 - 90	-0.4359	0.2121	0.8601
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
92 - 91	-0.6503	-0.1546	0.3412
92 - 89	-0.6394	-0.0298	0.5797
92 - 88	-0.5639	0.0121	0.5881
92 - 87	-0.5629	0.0329	0.6287
92 - 93	-0.4485	0.0863	0.6212
92 - 90	-0.3601	0.1823	0.7246
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
88 - 91	-0.7427	-0.1667	0.4093
88 - 89	-0.7184	-0.0419	0.6346
88 - 92	-0.5881	-0.0121	0.5639
88 - 87	-0.6433	0.0208	0.6849
88 - 93	-0.5358	0.0742	0.6842
88 - 90	-0.4464	0.1702	0.7867
87 - 91	-0.7833	-0.1875	0.4084
87 - 89	-0.7561	-0.0627	0.6307
87 - 92	-0.6287	-0.0329	0.5629
87 - 88	-0.6849	-0.0208	0.6433
87 - 93	-0.5753	0.0534	0.6822
87 - 90	-0.4857	0.1494	0.7845
Analysis of Variance Procedure			
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit
Comparison			
93 - 91	-0.7758	-0.2409	0.2940
93 - 89	-0.7579	-0.1161	0.5256

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
93 - 92	-0.6212	-0.0863	0.4485	
93 - 88	-0.6842	-0.0742	0.5358	
93 - 87	-0.6822	-0.0534	0.5753	
93 - 90	-0.4824	0.0959	0.6742	
90 - 91	-0.8792	-0.3369	0.2055	
90 - 89	-0.8601	-0.2121	0.4359	
90 - 92	-0.7246	-0.1823	0.3601	
90 - 88	-0.7867	-0.1702	0.4464	
90 - 87	-0.7845	-0.1494	0.4857	
90 - 93	-0.6742	-0.0959	0.4824	
Analysis of Variance Procedure				
Scheffe's test for variable: F18				
NOTE: This test controls the type I experimentwise error rate but generally has a higher type II error rate than Tukey's for all pairwise comparisons.				
Alpha= 0.05 Confidence= 0.95 df= 425 MSE= 1.118081				
Critical Value of F= 2.11991				
Comparisons significant at the 0.05 level are indicated by '***'.				
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
91 - 89	-0.5865	0.1248	0.8360	
91 - 92	-0.4239	0.1546	0.7331	
91 - 88	-0.5054	0.1667	0.8388	
91 - 87	-0.5078	0.1875	0.8827	
91 - 93	-0.3832	0.2409	0.8650	
91 - 90	-0.2960	0.3369	0.9697	
89 - 91	-0.8360	-0.1248	0.5865	
89 - 92	-0.6815	0.0298	0.7411	
89 - 88	-0.7474	0.0419	0.8312	
89 - 87	-0.7464	0.0627	0.8718	
89 - 93	-0.6327	0.1161	0.8650	
89 - 90	-0.5441	0.2121	0.9682	
Analysis of Variance Procedure				
YEAR	Simultaneous Lower Confidence Limit	Difference Between Means	Simultaneous Upper Confidence Limit	
Comparison				
92 - 91	-0.7331	-0.1546	0.4239	
92 - 89	-0.7411	-0.0298	0.6815	
92 - 88	-0.6600	0.0121	0.6842	
92 - 87	-0.6624	0.0329	0.7281	
92 - 93	-0.5378	0.0863	0.7104	
92 - 90	-0.4505	0.1823	0.8151	

(CONTINUE) TABLE 8: MULTIVARIATE ANALYSIS OF VARIANCE WITH YEAR AS THE DEPENDENT VARIABLE AND FACTORS 1, 2, 5, 6, 7, 8, 15, 16 AND 18 AS INDEPENDENT

Analysis of Variance Procedure				
YEAR	Simultaneous	Simultaneous	Difference	
Comparison	Lower Confidence Limit	Upper Confidence Limit	Between Means	Upper Confidence Limit
88 - 91	-0.8388	-0.1667	0.5054	
88 - 89	-0.8312	-0.0419	0.7474	
88 - 92	-0.6842	-0.0121	0.6600	
88 - 87	-0.7541	0.0208	0.7957	
88 - 93	-0.6375	0.0742	0.7860	
88 - 90	-0.5492	0.1702	0.8896	
87 - 91	-0.8827	-0.1875	0.5078	
87 - 89	-0.8718	-0.0627	0.7464	
87 - 92	-0.7281	-0.0329	0.6624	
87 - 88	-0.7957	-0.0208	0.7541	
87 - 93	-0.6802	0.0534	0.7871	
87 - 90	-0.5917	0.1494	0.8904	
Analysis of Variance Procedure				
YEAR	Simultaneous	Simultaneous	Difference	
Comparison	Lower Confidence Limit	Upper Confidence Limit	Between Means	Upper Confidence Limit
93 - 91	-0.8650	-0.2409	0.3832	
93 - 89	-0.8650	-0.1161	0.6327	
93 - 92	-0.7104	-0.0863	0.5378	
93 - 88	-0.7860	-0.0742	0.6375	
93 - 87	-0.7871	-0.0534	0.6802	
93 - 90	-0.5789	0.0959	0.7707	
Analysis of Variance Procedure				
YEAR	Simultaneous	Simultaneous	Difference	
Comparison	Lower Confidence Limit	Upper Confidence Limit	Between Means	Upper Confidence Limit
90 - 91	-0.9697	-0.3369	0.2960	
90 - 89	-0.9682	-0.2121	0.5441	
90 - 92	-0.8151	-0.1823	0.4505	
90 - 88	-0.8896	-0.1702	0.5492	
90 - 87	-0.8904	-0.1494	0.5917	
90 - 93	-0.7707	-0.0959	0.5789	

MULTIPLE LINEAR REGRESSION MODEL

TABLE 9: MULTIPLE REGRESSION WITH TOTFIRST AS THE DEPENDENT VARIABLE AND ACADEMIC, BEHAVIOURAL AND BIOGRAPHICAL VARIABLES AS THE INDEPENDENT VARIABLES (FOR ALL COHORTS 1987-1993)

Listwise Deletion of Missing Data	
Equation Number 1	Dependent Variable TOTFIRST
Block Number 1 Method	Enter
EENTRAN FAC15_2 FAC16_2 FAC18_2 FAC1_2 FAC2_2 FAC5_2 FAC6_2 FAC7_2 FAC8_2 P1 P2 P3 P4 P5 P61 P62 P63 P64 P65 P71 P72 P73 P74 P75 P8 P91 P92 P93 SCENTER TAVG	
***** MULTIPLE REGRESSION ***** Equation Number 1 Dependent Variable.. TOTFIRST	
Variable(s) Entered on Step Number	
1..	TAVG Average of the Tawjehiya scores
2..	FAC6_2 REGR factor score 6 for analysis 1
3..	P62 Father's education (Kuttab)
4..	P71 Mother's education (Illiterate)
5..	FAC15_2 REGR factor score 15 for analysis 1
6..	FAC2_2 REGR factor score 2 for analysis 1
7..	P91 Aspires to get a Diploma Degree
8..	FAC7_2 REGR factor score 7 for analysis 1
9..	FAC5_2 REGR factor score 5 for analysis 1
10..	FAC1_2 REGR factor score 1 for analysis 1
11..	P75 Mother's education (High School level)
12..	SCENTER Total science entrance score
13..	FAC8_2 REGR factor score 8 for analysis 1
14..	P93 Aspires to get a Masters degree
15..	P1 No. of family members
16..	P63 Father's education (Primary level)
17..	FAC16_2 REGR factor score 16 for analysis 1
18..	FAC18_2 REGR factor score 18 for analysis 1
19..	EENTRAN Total english entrance score
20..	P8 have a place to study at home?
21..	P3 father's occupation
22..	P74 Mother's education (Intermediate level)
23..	P73 Mother's education (Primary level)
24..	P65 Father's education (High School level)

(CONTINUE) TABLE 9: MULTIPLE REGRESSION WITH TOTFIRST AS THE DEPENDENT VARIABLE AND ACADEMIC, BEHAVIOURAL AND BIOGRAPHICAL VARIABLES AS THE INDEPENDENT VARIABLES (FOR ALL COHORTS 1987-1993)

25..	P4	mother's occup. before marriage
26..	P64	Father's education (Intermediate level)
27..	P2	family income
28..	P92	Aspires to get a Bachelor's Degree
29..	P5	mother's occup. after marriage
30..	P61	Father's education (Illiterate)
31..	P72	Mother's education (Kuttab)
Multiple R .66788		
R Square .44607		
Adjusted R Square .36730		
Standard Error 74.98449		
Analysis of Variance		
	DF	Sum of Squares
Regression	31	987068.94780
Residual	218	1225742.81620
		Mean Square
		31840.93380
		5622.67347
F =	5.66295	Signif F = .0000
**** MULTIPLE REGRESSION ****		
Equation Number 1 Dependent Variable.. TOTFIRST		
----- Variables in the Equation -----		
Variable	B	SE B
EENTRAN	2.428689	.506658
FAC15_2	-1.185883	5.409192
FAC16_2	1.585007	4.905387
FAC18_2	-1.951973	4.959199
FAC1_2	2.396618	5.401643
FAC2_2	-8.134466	5.800557
FAC5_2	-6.367740	5.571591
FAC6_2	3.981108	5.476315
FAC7_2	-5.084989	5.201337
FAC8_2	-7.202648	5.071899
P1	-.493237	1.701356
P2	.191672	4.111030
P3	-1.591853	1.618866
	Beta	T
	.264416	4.794
	-.011948	-.219
	.017664	.323
	-.021862	-.394
	.025104	.444
	-.076570	-1.402
	-.061777	-1.143
	.040910	.727
	-.052826	-.978
	-.076859	-1.420
	-.016122	-.290
	.003147	.047
	-.059996	-.983
	Sig T	
	.0000	
	.8267	
	.7469	
	.6943	
	.6577	
	.1622	
	.2543	
	.4680	
	.3293	
	.1570	
	.7722	
	.9629	
	.3265	

(CONTINUE) TABLE 9: MULTIPLE REGRESSION WITH TOTFIRST AS THE DEPENDENT VARIABLE AND ACADEMIC, BEHAVIOURAL AND BIOGRAPHICAL VARIABLES AS THE INDEPENDENT VARIABLES (FOR ALL COHORTS 1987-1993)

P4	-2.933853	5.439533	-.054558	-.539	.5902
P5	4.929296	6.054034	.083484	.814	.4164
P61	-41.162941	24.169743	-.199727	-1.703	.0900
P62	-32.419716	22.861053	-.151150	-1.418	.1576
P63	-17.150668	24.201735	-.059239	-.709	.4793
P64	-12.059067	22.275782	-.051271	-.541	.5888
P65	-1.899154	31.448876	-.004140	-.060	.9519
P71	46.910100	35.282259	.246410	1.330	.1851
P72	24.296379	34.860576	.120063	.697	.4866
P73	14.797007	35.999143	.048011	.411	.6814
P74	15.074585	35.600301	.045392	.423	.6724
P75	43.297692	40.805953	.085734	1.061	.2898
P8	9.638854	11.610397	.047660	.830	.4073
P91	-38.512861	17.802806	-.134917	2.163	.0316
P92	-37.167720	12.511493	-.197125	2.971	.0033
P93	-15.723659	16.173787	-.061884	-.972	.3320
SCENTER	1.880281	.485723	.211176	3.871	.0001
TAVG	4.714393	.678440	.388282	6.949	.0000
(Constant)	260.707439	74.575527	3.496		.0006

End of Block Number 1 All requested variables entered.

TOTFIRST= 260.707 + (2.42*EENTRA) + (-38.5*P1) + (-37.1*P92) + (1.88*SC) + (4.71*TAVG) — INTERMEDIARY FORMULA

TABLE 12: CORRELATING PREDICTED CGPA USING THE THREE SIGNIFICANT VARIABLES TAVG, SCENTER, EENTRAN WITH ACTUAL CGPA (COHORTS 1987-1990)

-- Correlation Coefficients --		
	ACTCGPA	ALL3VAR
ACTCGPA	1.0000 (178) P=.	.3488 (178) P=.000
ALL3VAR	.3488 (178) P=.000	1.0000 (179) P=.
(Coefficient / (Cases) / 2-tailed Significance)		
". " is printed if a coefficient cannot be computed		

TABLE 13: MULTIPLE REGRESSION WITH WORK AS THE DEPENDENT VARIABLE AND TOTFIRST AS THE INDEPENDENT VARIABLE FOR COHORTS 1987-1989 (GRADUATES ONLY)

```

**** MULTIPLE REGRESSION ****

Listwise Deletion of Missing Data

Equation Number 1  Dependent Variable..  WRK  work experience

Block Number 1.  Method: Enter  TOTFIRST

Variable(s) Entered on Step Number
1..  TOTFIRST

Multiple R      .10374
R Square       .01076
Adjusted R Square .00201
Standard Error  .57320

Analysis of Variance
      DF      Sum of Squares      Mean Square
Regression      1      .40392      .40392
Residual      113      37.12652      .32855

F =      1.22938      Signif F = .2699

----- Variables in the Equation -----

Variable      B      SE B      Beta      T Sig T
TOTFIRST  6.87582E-04  6.2013E-04  .103742  1.109 .2699
(Constant)  2.712897  .520495      5.212 .0000

End Block Number 1  All requested variables entered.

```

TABLE 14: MULTIPLE REGRESSION WITH WORK AS THE DEPENDENT VARIABLE AND 31 INDEPENDENT VARIABLES FOR COHORTS 1987-1989 (GRADUATES ONLY)

**** MULTIPLE REGRESSION ****			
Listwise Deletion of Missing Data			
Equation Number 1 Dependent Variable.. WRK work experience			
Block Number 1. Method: Enter			
EENTRAN FAC15_2 FAC16_2 FAC18_2 FAC1_2 FAC2_2 FAC5_2 FAC6_2			
FAC7_2 FAC8_2 P1 P2 P3 P4 P5 P61			
P62 P63 P64 P65 P71 P72 P73 P74			
P75 P8 P91 P92 P93 SCENTER TAVG			
**** MULTIPLE REGRESSION ****			
Equation Number 1 Dependent Variable.. WRK work experience			
Variable(s) Entered on Step Number			
1..	TAVG	Average of the Tawjehiya scores	
2..	SCENTER	Total science entrance score	
3..	P3	father's occupation	
4..	P74		
5..	FAC2_2	REGR factor score 2 for analysis	1
6..	FAC18_2	REGR factor score 18 for analysis	1
7..	P93		
8..	P73		
9..	EENTRAN	Total english entrance score	
10..	P75		
11..	FAC16_2	REGR factor score 16 for analysis	1
12..	FAC1_2	REGR factor score 1 for analysis	1
13..	FAC6_2	REGR factor score 6 for analysis	1
14..	FAC8_2	REGR factor score 8 for analysis	1
15..	FAC5_2	REGR factor score 5 for analysis	1
16..	P64		
17..	P91		
18..	P72		
19..	P65		
20..	P63		
21..	P1	No. of family members	
22..	P62		
23..	FAC7_2	REGR factor score 7 for analysis	1
24..	P8	have a place to study at home?	
25..	P92		
26..	FAC15_2	REGR factor score 15 for analysis	1
27..	P2	family income	
28..	P61		
29..	P5	mother's occup. after marriage	
30..	P71		
Multiple R .68058			
R Square .46319			
Adjusted R Square -.01048			
Standard Error .56966			
Analysis of Variance			
	DF	Sum of Squares	Mean Square
Regression	30	9.52023	.31734
Residual	34	11.03361	.32452
F = .97788 Signif F = .5220			

(CONTINUE) TABLE 14: MULTIPLE REGRESSION WITH WORK AS THE DEPENDENT VARIABLE AND 31 INDEPENDENT VARIABLES FOR COHORTS 1987-1989 (GRADUATES ONLY)

***** MULTIPLE REGRESSION *****					
Equation Number 1 Dependent Variable.. WRK work experience					
----- Variables in the Equation -----					
Variable	B	SE B	Beta	T	Sig T
TAVG	-.006075	.013802	-.086038	-.440	.6626
SCENTER	.004957	.007790	.108638	.636	.5288
P3	-.022016	.034173	-.143195	-.644	.5237
P74	-2.113336	2.633021	-1.087845	-.803	.4278
FAC2_2	.066134	.119141	.100831	.555	.5825
FAC18_2	.008378	.104961	.016024	.080	.9368
P93	-.161999	.302174	-.111773	-.536	.5954
P73	-1.893186	2.675991	-.974522	-.707	.4841
EENTRAN	-.004988	.009846	-.085366	-.507	.6157
P75	1.049700	1.237477	.497419	.848	.4022
FAC16_2	-.042482	.089155	-.086071	-.477	.6368
FAC1_2	.091583	.121051	.137978	.757	.4545
FAC6_2	.034361	.121560	.052370	.283	.7791
FAC8_2	-.084287	.133275	-.127036	-.632	.5313
FAC5_2	.060907	.121617	.109174	.501	.6197
P64	-.025064	.429779	-.017293	-.058	.9538
P91	-.340207	.795077	-.104478	-.428	.6714
P72	-1.994800	2.657326	-1.587381	-.751	.4580
P65	.382082	.626924	.117338	.609	.5463
P63	-.099206	.477840	-.051067	-.208	.8368
P1	-.014665	.032728	-.093157	-.448	.6569
P62	.024115	.442474	.018847	.055	.9569
FAC7_2	-.106245	.125218	-.174222	-.848	.4021
P8	-.113815	.314121	-.087188	-.362	.7193
P92	-.013896	.229631	-.012319	-.061	.9521
FAC15_2	.112733	.145530	.163051	.775	.4439
P2	.066601	.098571	.179236	.676	.5038
P61	.166114	.444329	.141251	.374	.7108
P5	.367380	.263972	1.505178	1.392	.1730
P71	-2.134670	2.648747	-1.887026	-.806	.4259
(Constant)	2.111100	1.757374		1.201	.2379
----- Variables not in the Equation -----					
Variable	Beta In	Partial	Min Toler	T	Sig T
P4		.000000			
End Block Number 1 Tolerance = 1.00E-04 Limits reached.					

TABLE 15: MULTIPLE REGRESSION WITH WORK AS THE DEPENDENT VARIABLE AND CGPA AS THE INDEPENDENT VARIABLES FOR COHORTS 1987-1989 (GRADUATES ONLY)

**** MULTIPLE REGRESSION ****					
Listwise Deletion of Missing Data					
Equation Number 1 Dependent Variable.. WRK work experience					
Block Number 1. Method: Enter CGPA					
Variable(s) Entered on Step Number					
1.. CGPA Cumulative gpa					
Multiple R .15934					
R Square .02539					
Adjusted R Square .01645					
Standard Error .57005					
Analysis of Variance					
	DF	Sum of Squares	Mean Square		
Regression	1	.92265	.92265		
Residual	109	35.41969	.32495		
F = 2.83934 Signif F = .0948					
----- Variables in the Equation -----					
Variable	B	SE B	Beta	T	Sig T
CGPA	.152402	.090444	.159335	1.685	.0948
(Constant)	2.917222	.221574		13.166	.0000
End Block Number 1 All requested variables entered.					

TABLE 16: MULTIPLE REGRESSION WITH CGPA AS THE DEPENDENT VARIABLE AND 9 DISPOSITIONAL FACTOR SCORES AS THE INDEPENDENT VARIABLES FOR GRAUDATES

**** MULTIPLE REGRESSION ****					
**** MULTIPLE REGRESSION ****					
Listwise Deletion of Missing Data					
Equation Number 1 Dependent Variable.. CGPA Cumulative gpa					
Block Number 1 Method: Enter					
FAC15_2 FAC16_2 FAC18_2 FAC2_2 FAC5_2 FAC6_2 FAC7_2 FAC8_2					
FAC1_2					
Variable(s) Entered on Step Number					
1..	FAC1_2	REGR factor score	1 for analysis	1	
2..	FAC7_2	REGR factor score	7 for analysis	1	
3..	FAC6_2	REGR factor score	6 for analysis	1	
4..	FAC8_2	REGR factor score	8 for analysis	1	
5..	FAC5_2	REGR factor score	5 for analysis	1	
6..	FAC15_2	REGR factor score	15 for analysis	1	
7..	FAC16_2	REGR factor score	16 for analysis	1	
8..	FAC18_2	REGR factor score	18 for analysis	1	
9..	FAC2_2	REGR factor score	2 for analysis	1	
Multiple R .27805					
R Square .07731					
Adjusted R Square .02408					
Standard Error .54286					
Analysis of Variance					
	DF	Sum of Squares	Mean Square		
Regression	9	3.85200	.42800		
Residual	156	45.97233	.29469		
F = 1.45235 Signif F = .1704					
----- Variables in the Equation -----					
Variable	B	SE B	Beta	T	Sig T
FAC1_2	.112003	.051217	.175607	2.187	.0302
FAC7_2	-.025959	.046488	-.046560	-.558	.5774
FAC6_2	-.013492	.048989	-.021895	-.275	.7834
FAC8_2	.066800	.046571	.113542	1.434	.1535
FAC5_2	-.034240	.049003	-.055799	-.699	.4858
FAC15_2	.036930	.052890	.054955	.699	.4855
FAC16_2	.079352	.043092	.146632	1.841	.0675
FAC18_2	.014885	.038867	.031157	.383	.7023
FAC2_2	-.043593	.048149	-.074414	-.905	.3667
(Constant)	2.368499	.047445		49.920	.0000
End Block Number 1 All requested variables entered.					

TABLE 17: MULTIPLE REGRESSION WITH WORK AS THE DEPENDENT VARIABLE AND 9 DISPOSITIONAL FACTOR SCORES AS THE INDEPENDENT VARIABLES FOR GRADUATES

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**** MULTIPLE REGRESSION ****

Listwise Deletion of Missing Data

Equation Number 1   Dependent Variable.. WRK   work experience

Block Number 1. Method: Enter
  FAC15_2 FAC16_2 FAC18_2 FAC2_2  FAC5_2  FAC6_2  FAC7_2  FAC8_2
  FAC1_2

Variable(s) Entered on Step Number
1..  FAC1_2  REGR factor score  1 for analysis  1
2..  FAC5_2  REGR factor score  5 for analysis  1
3..  FAC8_2  REGR factor score  8 for analysis  1
4..  FAC2_2  REGR factor score  2 for analysis  1
5..  FAC18_2 REGR factor score 18 for analysis  1
6..  FAC16_2 REGR factor score 16 for analysis  1
7..  FAC6_2  REGR factor score  6 for analysis  1
8..  FAC15_2 REGR factor score 15 for analysis  1
9..  FAC7_2  REGR factor score  7 for analysis  1

Multiple R      .26612
R Square        .07082
Adjusted R Square -.00882
Standard Error   .57630

Analysis of Variance
              DF   Sum of Squares   Mean Square
Regression      9       2.65791       .29532
Residual     105      34.87252       .33212

F =      .88921   Signif F = .5376

----- Variables in the Equation -----
Variable      B      SE B      Beta      T Sig T
FAC1_2      -.058678  .065872  -.085656  -.891 .3751
FAC5_2       .014378  .062260  .023604  .231 .8178
FAC8_2      -.034579  .063690  -.051911  -.543 .5883
FAC2_2      -.047563  .063630  -.075633  -.747 .4564
FAC18_2     .040153  .052335  .077813  .767 .4447
FAC16_2     -.039894  .055857  -.074303  -.714 .4767
FAC6_2      .120323  .066233  .182352  1.817 .0721
FAC15_2     .025442  .072011  .034985  .353 .7246
FAC7_2     -.016331  .067003  -.027393  -.244 .8079
(Constant)  3.280487  .063981      51.273 .0000

End Block Number 1 All requested variables entered.

**** MULTIPLE REGRESSION ****

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