

## APPENDIX J

## SELECTION: EDUCATORS DATA

(P01) : PROC PRINT of data set P01NSP based on varb NSP

Obs	VARB	ASPCORR	TSPCORR	NUM
1	V33	0.34798	-0.34798	19
2	V35	0.31799	-0.31799	20
3	V18	0.27285	-0.27285	08
4	V15	0.27011	-0.27011	06
5	V9	0.26256	-0.26256	03
6	V40	0.21537	-0.21537	24
7	V13	0.18564	-0.18564	05
8	V22	0.16412	0.16412	11
9	V11	0.15464	0.15464	04
10	V42	0.14368	-0.14368	26
11	V21	0.13514	-0.13514	10
12	V51	0.12640	0.12640	32
13	V44	0.11653	0.11653	27
14	V38	0.10161	0.10161	22
15	V31	0.09346	0.09346	17
16	V7	0.08126	-0.08126	02
17	V24	0.07271	0.07271	12
18	V53	0.06406	0.06406	34
19	V4	0.05297	-0.05297	01
20	V45	0.05025	0.05025	28
21	V29	0.04662	0.04662	15
22	V46	0.03908	-0.03908	29
23	V39	0.03858	-0.03858	23
24	V52	0.03835	0.03835	33
25	V32	0.03700	-0.03700	18
26	V28	0.03682	0.03682	14
27	V37	0.03499	-0.03499	21
28	V17	0.02812	0.02812	07
29	V47	0.01962	-0.01962	30
30	V49	0.01554	0.01554	31
31	V26	0.01211	-0.01211	13
32	V41	0.01054	0.01054	25
33	V30	0.00290	-0.00290	16
34	V20	0.00213	0.00213	09

## The LOGISTIC Procedure

## Analysis of Effects in the Model

Effect	DF	Score	
		Chi-Square	Pr > ChiSq
V45	1	0.2738	0.6008
V46	1	1.0314	0.3098
V47	1	0.0017	0.9673
V49	1	0.3417	0.5589
V51	1	0.0076	0.9307
V52	1	1.3046	0.2534
V53	1	3.3857	0.0658

## Summary of Stepwise Selection

Step	Effect		DF	Number In	Score Chi-Square	Wald Chi-Square	Pr > ChiSq	Variable Label
	Entered	Removed						
1	V33		1	1	27.4654	.	<.0001	Regulations : V33
2	V22		1	2	13.0261	.	0.0003	Afternoon att : V22
3	V9		1	3	7.9013	.	0.0049	Grade : V9

## The FREQ Procedure

Table of NSP by V33

NSP		V33(Regulations : V33)				
Frequency	Percent	1	2	3	4	Total
Row Pct.	Col Pct					
1	0	11	39	28		78
	0.00	4.74	16.81	12.07		33.62
	0.00	14.10	50.00	35.90		
	0.00	14.47	38.24	57.14		
2	5	65	63	21		154
	2.16	28.02	27.16	9.05		66.38
	3.25	42.21	40.91	13.64		
	100.00	85.53	61.76	42.86		
Total	5	76	102	49		232
	2.16	32.76	43.97	21.12		100.00

Table of NSP by V22

NSP		V22 (Afternoon att : V22)				
Frequency	Percent					
Row Pct.	Col Pct	1	2	3	4	Total
1	34	16	21	7	78	
	14.66	6.90	9.05	3.02	33.62	
	43.59	20.51	26.92	8.97		
	52.31	21.62	31.34	26.92		
2	31	58	46	19	154	
	13.36	25.00	19.83	8.19	66.38	
	20.13	37.66	29.87	12.34		
	47.69	78.38	68.66	73.08		
Total	65	74	67	26	232	
	28.02	31.90	28.88	11.21	100.00	

APPENDIX K

SECTION: PRINCIPALS DATA

The FREQ Procedure

Table of NSP by V9

NSP	V9(Grade : V9)				Total
	1	2	3	4	
Frequency					
Percent					
Row Pct					
Col Pct					
1	0	22	34	22	78
	0.00	9.48	14.66	9.48	33.62
	0.00	28.21	43.59	28.21	
	0.00	27.50	39.08	50.00	
2	21	58	53	22	154
	9.05	25.00	22.84	9.48	66.38
	13.64	37.66	34.42	14.29	
	100.00	72.50	60.92	50.00	
Total	21	80	87	44	232
	9.05	34.48	37.50	18.97	100.00

## APPENDIX K

## SELECTION: PRINCIPALS DATA

(P02A) : PROC PRINT of data set P02ANSP based on varb NSP

Obs	VARB	ASPCORR	TSPCORR	NUM
1	V9	0.76326	-0.76326	03
2	V13	0.69533	-0.69533	05
3	V52	0.67742	-0.67742	32
4	V11	0.47565	0.47565	04
5	V7	0.47484	-0.47484	02
6	V18	0.46562	-0.46562	08
7	V22	0.42880	-0.42880	11
8	V44	0.39488	-0.39488	26
9	V15	0.33381	-0.33381	06
10	V20	0.31744	-0.31744	09
11	V43	0.26261	-0.26261	25
12	V51	0.23717	0.23717	31
13	V24	0.22291	0.22291	12
14	V33	0.21557	-0.21557	19
15	V31	0.20057	-0.20057	17
16	V40	0.17748	-0.17748	23
17	V29	0.15823	-0.15823	15
18	V26	0.15430	0.15430	13
19	V41	0.15430	-0.15430	24
20	V37	0.15281	0.15281	21
21	V35	0.15243	-0.15243	20
22	V53	0.12902	-0.12902	33
23	V4	0.12649	0.12649	01
24	V30	0.12072	-0.12072	16
25	V21	0.09782	0.09782	10
26	V28	0.09332	0.09332	14
27	V32	0.08943	0.08943	18
28	V47	0.08152	0.08152	29
29	V46	0.07703	-0.07703	28
30	V38	0.05951	0.05951	22
31	V45	0.03631	0.03631	27
32	V17	0.02750	-0.02750	07
33	V49	0.00000	0.00000	30

## The FREQ Procedure

Table of NSP by V13

NSP		V13(Final : V13)			
Frequency	Percent	2	3	4	Total
Row Pct	Col Pct				
Top	0	8	2	10	
	0.00	26.67	6.67	33.33	
	0.00	80.00	20.00		
	0.00	57.14	100.00		
Mid/Bot	14	6	0	20	
	46.67	20.00	0.00	66.67	
	70.00	30.00	0.00		
	100.00	42.86	0.00		
Total	14	14	2	30	
	46.67	46.67	6.67	100.00	

## Statistics for Table of NSP by V13

Statistic	DF	Value	Prob
Chi-Square	2	14.5714	0.0007
Likelihood Ratio Chi-Square	2	19.0694	<.0001
Mantel-Haenszel Chi-Square	1	13.9821	0.0002
Phi Coefficient		0.6969	
Contingency Coefficient		0.5718	
Cramer's V		0.6969	

WARNING: 67% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Sample Size = 30

## The FREQ Procedure

Table of NSP by V52

NSP		V52 (Good pass : V52)				
Frequency	Percent	1	2	4	5	Total
Row Pct	Col Pct					
Top	0	3	3	4		10
	0.00	10.00	10.00	13.33		33.33
	0.00	30.00	30.00	40.00		
	0.00	37.50	50.00	100.00		
Mid/Bot	12	5	3	0		20
	40.00	16.67	10.00	0.00		66.67
	60.00	25.00	15.00	0.00		
	100.00	62.50	50.00	0.00		
Total	12	8	6	4		30
	40.00	26.67	20.00	13.33		100.00

Statistics for Table of NSP by V52

Statistic	DF	Value	Prob
Chi-Square	3	14.8125	0.0020
Likelihood Ratio Chi-Square	3	19.2881	0.0002
Mantel-Haenszel Chi-Square	1	12.6875	0.0004
Phi Coefficient		0.7027	
Contingency Coefficient		0.5749	
Cramer's V		0.7027	

WARNING: 75% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Sample Size = 30



## The FREQ Procedure

## Table of NSP by V11

NSP	V11(Capable : V11)		Total
	1	2	
Frequency			
Percent			
Row Pct			
Col Pct			
Top	9	1	10
	30.00	3.33	33.33
	90.00	10.00	
	52.94	7.69	
Mid/Bot	8	12	20
	26.67	40.00	66.67
	40.00	60.00	
	47.06	92.31	
Total	17	13	30
	56.67	43.33	100.00

## Statistics for Table of NSP by V11

Statistic	DF	Value	Prob
Chi-Square	1	6.7873	0.0092
Likelihood Ratio Chi-Square	1	7.6318	0.0057
Continuity Adj. Chi-Square	1	4.9038	0.0268
Mantel-Haenszel Chi-Square	1	6.5611	0.0104
Phi Coefficient		0.4757	
Contingency Coefficient		0.4295	
Cramer's V		0.4757	

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

## Fisher's Exact Test

Cell (1,1) Frequency (F)	9
Left-sided Pr <= F	0.9994
Right-sided Pr >= F	0.0112
Table Probability (P)	0.0105
Two-sided Pr <= P	0.0174

Sample Size = 30

## The FREQ Procedure

## Table of NSP by V7

NSP        V7(Enjoyment : V7)

Frequency Percent Row Pct Col Pct	1	2	3	4	5	6	7	8	Total
Top	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	1 3.33 10.00 20.00	1 3.33 10.00 25.00	3 10.00 30.00 42.86	5 16.67 50.00 62.50	10 33.33
Mid/Bot	2 6.67 10.00 100.00	1 3.33 5.00 100.00	1 3.33 5.00 100.00	2 6.67 10.00 100.00	4 13.33 20.00 80.00	3 10.00 15.00 75.00	4 13.33 20.00 57.14	3 10.00 15.00 37.50	20 66.67
Total	2 6.67	1 3.33	1 3.33	2 6.67	5 16.67	4 13.33	7 23.33	8 26.67	30 100.00

## Statistics for Table of NSP by V7

Statistic	DF	Value	Prob
Chi-Square	7	6.8732	0.4422
Likelihood Ratio Chi-Square	7	8.5424	0.2872
Mantel-Haenszel Chi-Square	1	5.8023	0.0160
Phi Coefficient		0.4787	
Contingency Coefficient		0.4317	
Cramer's V		0.4787	

WARNING: 94% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Sample Size = 30

## The FREQ Procedure

Table of NSP by V18

NSP		V18 (Punctuality : V18)						
Frequency	Percent	Row Pct	Col Pct	1	2	3	4	Total
Top	0	3	4	3				10
	0.00	10.00	13.33	10.00				33.33
	0.00	30.00	40.00	30.00				
	0.00	27.27	44.44	75.00				
Mid/Bot	6	8	5	1				20
	20.00	26.67	16.67	3.33				66.67
	30.00	40.00	25.00	5.00				
	100.00	72.73	55.56	25.00				
Total	6	11	9	4				30
	20.00	36.67	30.00	13.33				100.00

## Statistics for Table of NSP by V18

Statistic	DF	Value	Prob
Chi-Square	3	6.8068	0.0783
Likelihood Ratio Chi-Square	3	8.4359	0.0378
Mantel-Haenszel Chi-Square	1	6.4703	0.0110
Phi Coefficient		0.4763	
Contingency Coefficient		0.4300	
Cramer's V		0.4763	

WARNING: 75% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Sample Size = 30

## The FREQ Procedure

## Table of NSP by V22

NSP		V22(Afternoon att : V22)				
Frequency	Percent	1	2	3	4	Total
Top		2	1	3	4	10
	6.67	3.33	10.00	13.33		33.33
	20.00	10.00	30.00	40.00		
	22.22	11.11	37.50	100.00		
Mid/Bot		7	8	5	0	20
	23.33	26.67	16.67	0.00		66.67
	35.00	40.00	25.00	0.00		
	77.78	88.89	62.50	0.00		
Total		9	9	8	4	30
	30.00	30.00	26.67	13.33		100.00

## Statistics for Table of NSP by V22

Statistic	DF	Value	Prob
Chi-Square	3	10.5625	0.0143
Likelihood Ratio Chi-Square	3	11.7921	0.0081
Mantel-Haenszel Chi-Square	1	6.1637	0.0130
Phi Coefficient		0.5934	
Contingency Coefficient		0.5103	
Cramer's V		0.5934	

WARNING: 63% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Sample Size = 30

## The FREQ Procedure

Table of NSP by V44

NSP		V44(Parents : V44)				
Frequency	Percent	1	2	3	4	Total
Row Pct	Col Pct					
Top		2	2	4	2	10
	6.67	6.67	13.33	6.67		33.33
	20.00	20.00	40.00	20.00		
	18.18	20.00	66.67	66.67		
Mid/Bot		9	8	2	1	20
	30.00	26.67	6.67	3.33		66.67
	45.00	40.00	10.00	5.00		
	81.82	80.00	33.33	33.33		
Total		11	10	6	3	30
	36.67	33.33	20.00	10.00		100.00

Statistics for Table of NSP by V44

Statistic	DF	Value	Prob
Chi-Square	3	6.4364	0.0922
Likelihood Ratio Chi-Square	3	6.2945	0.0981
Mantel-Haenszel Chi-Square	1	4.8222	0.0281
Phi Coefficient		0.4632	
Contingency Coefficient		0.4203	
Cramer's V		0.4632	

WARNING: 75% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Sample Size = 30

## The FREQ Procedure

## Table of NSP by V9

NSP		V9(Grade : V9)						
Frequency	Percent	Row Pct	Col Pct	1	2	3	4	Total
Top	0	1	5	4	10			
	0.00	3.33	16.67	13.33	33.33			
	0.00	10.00	50.00	40.00				
	0.00	12.50	71.43	100.00				
Mid/Bot	11	7	2	0	20			
	36.67	23.33	6.67	0.00	66.67			
	55.00	35.00	10.00	0.00				
	100.00	87.50	28.57	0.00				
Total	11	8	7	4	30			
	36.67	26.67	23.33	13.33	100.00			

## Statistics for Table of NSP by V9

Statistic	DF	Value	Prob
Chi-Square	3	19.6339	0.0002
Likelihood Ratio Chi-Square	3	23.7868	<.0001
Mantel-Haenszel Chi-Square	1	17.6917	<.0001
Phi Coefficient		0.8090	
Contingency Coefficient		0.6289	
Cramer's V		0.8090	

WARNING: 75% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Sample Size = 30

## APPENDIX L

## SELECTION: LEARNERS DATA

(P03) : PROC PRINT of data set P03NSP based on varb NSP

Obs	VARB	ASPCORR	TSPCORR	NUM
1	V12	0.34922	-0.34922	07
2	V38	0.23188	-0.23188	24
3	V16	0.20417	-0.20417	09
4	V14	0.19827	0.19827	08
5	V27	0.19632	-0.19632	16
6	V36	0.17638	-0.17638	23
7	V21	0.17014	-0.17014	12
8	V24	0.16412	-0.16412	14
9	V18	0.15089	-0.15089	10
10	V29	0.12910	-0.12910	17
11	V51	0.12310	-0.12310	33
12	V32	0.12177	-0.12177	19
13	V41	0.11325	-0.11325	26
14	V47	0.09602	0.09602	31
15	V44	0.07869	-0.07869	28
16	V33	0.06723	-0.06723	20
17	V31	0.06307	-0.06307	18
18	V35	0.05778	-0.05778	22
19	V43	0.05655	-0.05655	27
20	V25	0.05335	0.05335	15
21	V5	0.05206	0.05206	02
22	V6	0.05101	0.05101	03
23	V40	0.04343	0.04343	25
24	V10	0.04311	-0.04311	06
25	V8	0.04245	-0.04245	05
26	V46	0.04072	-0.04072	30
27	V20	0.04004	-0.04004	11
28	V52	0.03535	0.03535	34
29	V45	0.03032	0.03032	29
30	V34	0.03004	-0.03004	21
31	V7	0.02188	-0.02188	04
32	V53	0.01804	0.01804	35
33	V4	0.01395	0.01395	01
34	V49	0.01301	0.01301	32
35	V23	0.01004	-0.01004	13

## The LOGISTIC Procedure

## Summary of Stepwise Selection

Effect	Entered	Removed	DF	Number In	Score Chi-Square	Wald Chi-Square	Pr > ChiSq	Variable Label
V12			1	1	59.2952	.	<.0001	Finals : V12
V27			1	2	21.3904	.	<.0001	Grade 12 : V27
V16			1	3	16.0114	.	<.0001	Results : V16
V38			1	4	8.5974	.	0.0034	Implement : V38
V29			1	5	9.6456	.	0.0019	Day 1 : V29
V41			1	6	5.9341	.	0.0149	Visited : V41
V14			1	7	5.5610	.	0.0184	Capable : V14
V24			1	8	5.2951	.	0.0214	Afternoon : V24
VV35			1	9	6.3632	.	0.0117	

## The FREQ Procedure

## Table of NSP by V12

NSP		V12(Finals : V12)				Total
Frequency	Percent	1	2	3	4	
1	Row Pct	9	19	65	32	125
	Col Pct	1.79	3.78	12.95	6.37	24.90
		7.20	15.20	52.00	25.60	
		7.50	12.93	39.16	46.38	
2	Frequency	111	128	101	37	377
	Percent	22.11	25.50	20.12	7.37	75.10
	Row Pct	29.44	33.95	26.79	9.81	
	Col Pct	92.50	87.07	60.84	53.62	
Total		120	147	166	69	502
		23.90	29.28	33.07	13.75	100.00



Table of NSP by V27

NSP		V27 (Grade 12 : V27)		
Frequency	Percent	1	2	Total
Row Pct	Col Pct			
1		67	58	125
		13.35	11.55	24.90
		53.60	46.40	
		19.25	37.66	
2		281	96	377
		55.98	19.12	75.10
		74.54	25.46	
		80.75	62.34	
Total		348	154	502
		69.32	30.68	100.00

The FREQ Procedure  
Table of NSP by V16

NSP		V16(Results : V16)						
Frequency	Percent	Row Pct	Col Pct	1	2	3	4	Total
1	2	6	30	87	125			
	0.40	1.20	5.98	17.33	24.90			
	1.60	4.80	24.00	69.60				
	8.70	16.22	16.48	33.46				
2	21	31	152	173	377			
	4.18	6.18	30.28	34.46	75.10			
	5.57	8.22	40.32	45.89				
	91.30	83.78	83.52	66.54				
Total	23	37	182	260	502			
	4.58	7.37	36.25	51.79	100.00			

Table of NSP by V38

NSP		V38 (Implement : V38)				
Frequency	Percent	1	2	3	4	Total
Row Pct	Col Pct					
1	3	24	60	38		125
	0.60	4.78	11.95	7.57		24.90
	2.40	19.20	48.00	30.40		
	14.29	14.72	25.42	46.34		
2	18	139	176	44		377
	3.59	27.69	35.06	8.76		75.10
	4.77	36.87	46.68	11.67		
	85.71	85.28	74.58	53.66		
Total	21	163	236	82		502
	4.18	32.47	47.01	16.33		100.00

## The FREQ Procedure

Table of NSP by V29

NSP		V29(Day 1 : V29)		Total
Frequency	Percent	1	2	
Row Pct	Col Pct			
1		62	63	125
		12.35	12.55	24.90
		49.60	50.40	
		20.39	31.82	
2		242	135	377
		48.21	26.89	75.10
		64.19	35.81	
		79.61	68.18	
Total		304	198	502
		60.56	39.44	100.00

Table of NSP by V41

NSP		V41(Visited : V41)		Total
Frequency	Percent	1	2	
Row Pct	Col Pct			
1		30	95	125
		5.98	18.92	24.90
		24.00	76.00	
		17.96	28.36	
2		137	240	377
		27.29	47.81	75.10
		36.34	63.66	
		82.04	71.64	
Total		167	335	502
		33.27	66.73	100.00

## The FREQ Procedure

Table of NSP by V14

NSP		V14 (Capable : V14)		
Frequency	Percent	Row Pct	Col Pct	Total
		1	2	
1	105	20	125	
	20.92	3.98	24.90	
	84.00	16.00		
	30.79	12.42		
2	236	141	377	
	47.01	28.09	75.10	
	62.60	37.40		
	69.21	87.58		
Total	341	161	502	
	67.93	32.07	100.00	

Table of NSP by V24

NSP		V24 (Afternoon : V24)		
Frequency	Percent	1	2	Total
Row Pct	Col Pct			
1		51	74	125
		10.16	14.74	24.90
		40.80	59.20	
		18.48	32.74	
2		225	152	377
		44.82	30.28	75.10
		59.68	40.32	
		81.52	67.26	
Total		276	226	502
		54.98	45.02	100.00

## The FREQ Procedure

Table of NSP by VV35

NSP		VV35											Total
Frequency	Percent	1	3	4	5	6	7	8	9	10	11	12	Total
Row Pct	Col Pct												
1	0	0	1	23	37	14	32	14	3	1	0	125	
	0.00	0.00	0.20	4.58	7.37	2.79	6.37	2.79	0.60	0.20	0.00	24.90	
	0.00	0.00	0.80	18.40	29.60	11.20	25.60	11.20	2.40	0.80	0.00		
	0.00	0.00	10.00	21.90	23.72	35.00	29.91	19.72	42.86	100.00	0.00		
2	1	3	9	82	119	26	75	57	4	0	1	377	
	0.20	0.60	1.79	16.33	23.71	5.18	14.94	11.35	0.80	0.00	0.20	75.10	
	0.27	0.80	2.39	21.75	31.56	6.90	19.89	15.12	1.06	0.00	0.27		
	100.00	100.00	90.00	78.10	76.28	65.00	70.09	80.28	57.14	0.00	100.00		
Total	1	3	10	105	156	40	107	71	7	1	1	502	
	0.20	0.60	1.99	20.92	31.08	7.97	21.31	14.14	1.39	0.20	0.20	100.00	

(P05-R1a) : PROC LOGISTIC with MODEL of NSP = G9 G11 G13 G15 G17 G18 G20 G21 G22 G26 G28 G29 G31 G32 G33 G35 G37 G46  
G47 G48 G49 G51 G52 G53 / SELECTION=STEPWISE DETAILS from data set COMBO

## The LOGISTIC Procedure

## Analysis of Effects Not in the Model

Effect	DF	Score	
		Chi-Square	Pr > ChiSq
G11	1	0.0013	0.9716
G13	1	1.9990	0.1574
G17	1	0.0694	0.7921
G18	1	0.9834	0.3214
G20	1	1.0231	0.3118
G21	1	0.3065	0.5798
G22	1	0.0773	0.7810
G26	1	1.0056	0.3160
G28	1	0.0008	0.9776
G29	1	3.0828	0.0791
G31	1	0.8112	0.3678
G32	1	0.6242	0.4295
G33	1	1.3263	0.2495
G35	1	0.8956	0.3440
G37	1	0.1886	0.6641
G47	1	0.9759	0.3232
G48	1	2.6627	0.1027
G49	1	1.8843	0.1698
G51	1	0.0296	0.8633
G52	1	2.3183	0.1279
G53	1	0.5948	0.4406

NOTE: No (additional) effects met the 0.05 significance level for entry into the model.

## Summary of Stepwise Selection

Step	Effect		DF	Number In	Score Chi-Square	Wald Chi-Square	Pr > ChiSq
	Entered	Removed					
1	G15		1	1	13.0834	.	0.0003
2	G46		1	2	9.7630	.	0.0018
3	G9		1	3	9.5554	.	0.0020



## The FREQ Procedure

Table of NSP by G15

NSP		G15				
Frequency	Percent	1	2	3	4	Total
Row Pct	Col Pct					
Top	0	5	14	11		30
	0.00	5.56	15.56	12.22		33.33
	0.00	16.67	46.67	36.67		
	0.00	20.00	32.56	78.57		
Mid/Bot	8	20	29	3		60
	8.89	22.22	32.22	3.33		66.67
	13.33	33.33	48.33	5.00		
	100.00	80.00	67.44	21.43		
Total	8	25	43	14		90
	8.89	27.78	47.78	15.56		100.00

Table of NSP by G46

NSP		G46				
Frequency	Percent	1	2	3	4	Total
Row Pct	Col Pct					
Top	2	13	13	2		30
	2.22	14.44	14.44	2.22		33.33
	6.67	43.33	43.33	6.67		
	25.00	28.89	38.24	66.67		
Mid/Bot	6	32	21	1		60
	6.67	35.56	23.33	1.11		66.67
	10.00	53.33	35.00	1.67		
	75.00	71.11	61.76	33.33		
Total	8	45	34	3		90
	8.89	50.00	37.78	3.33		100.00

## The FREQ Procedure

Table of NSP by G9

NSP	G9				Total
	1	2	3	4	
Frequency					
Percent					
Row Pct					
Col Pct					
Top	0	4	20	6	30
	0.00	4.44	22.22	6.67	33.33
	0.00	13.33	66.67	20.00	
	0.00	14.81	55.56	75.00	
Mid/Bot	19	23	16	2	60
	21.11	25.56	17.78	2.22	66.67
	31.67	38.33	26.67	3.33	
	100.00	85.19	44.44	25.00	
Total	19	27	36	8	90
	21.11	30.00	40.00	8.89	100.00

Dear Sir

APPLICATION FOR CONDUCTING RESEARCH

I hereby make an application for conducting research in your circuit offices, circuit offices and schools.

I am a registered student, doing MEd degree in the Department of Education, University of Pretoria.

My research topic is "The impact of the National Curriculum Statement on the teaching of mathematics in the Northern Province". My proposal is attached.

Attached is my University application.

Yours faithfully,

*M.M. Phaswana*  
M.M. PHASWANANA

APPENDIX N

APPLICATION TO CONDUCT RESEARCH

P.O. Box 470  
RAMOKGOPA  
0811

29 April 1998

The Superintendent General  
Dept. of Education, Arts and Culture  
PIETERSBURG  
0700

Dear Sir

**APPLICATION : CONDUCTING RESEARCH**

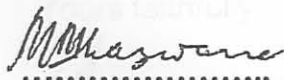
I hereby make an application for conducting research in your department, regions, area offices, circuit offices and schools.

I am a registered student, doing PH.D. degree in the Department of Education Management, Faculty of Education University of Pretoria.

My research topic is : “The impact of the hidden Curriculum on the South African School leaving examination in the Northern Province.” My promoter is Prof. Berkhout S.J.

Attached : University application

Yours faithfully



M.M. PHASWANA (Mr.)

APPENDIX O

APPLICATION TO CONDUCT RESEARCH

University of Pretoria

Pretoria 0002 Republic of South Africa Tel (012) 4209111  
Fax (012) 3422712 / 432185

Faculty of Education

03-02-1999

The Superintendent General  
Northern Province  
Department of Education  
**PIETERSBURG**  
0700

**REQUEST TO CONDUCT RESEARCH: PERIOD FEB 1999 TO  
SEPTEMBER 1999**

This is to certify that Mr MM Phaswana of PO Box 470, Ramokgopa, 0811 is a postgraduate student registered for a PhD degree in the Department of Education Management, Faculty of Education, University of Pretoria.

His research topic is: "*The impact of the hidden curriculum on the South African school leaving examination in the Northern Province.*" His promotor is prof SJ Berkhout.

This is a friendly request to allow him to conduct research with regard to the above mentioned topic in your department, regions, area offices, circuit offices and schools as per appointment.

Thank you for your co-operation.

Yours faithfully



**Prof SJ Berkhout**  
Department of Education

APPENDIX P

PERMISSION TO CONDUCT RESEARCH



NORTHERN PROVINCE  
EDUCATION, ARTS, CULTURE & SPORTS

Enq: N.M Nghatsane

MIR. PHASWANE  
BOX 470  
KAMSKOPA  
0811

Dear sir/madam

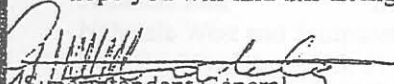
REQUEST TO CONDUCT RESEARCH IN OUR SCHOOLS AND GOVERNMENT INSTITUTIONS: \_\_\_\_\_

Your request to conduct research in "The Impact of the..." with the Northern Province educational institution and educators is hereby granted.

You will be expected to keep the Regional Directors informed of research taking place in their schools and for that reason we attach a list of regional directors.

We will appreciate if we could be supplied with the findings of your research , this will help to improve teaching in our schools.

We hope you will find this arrangement helpful.

  
Superintendent General

Date : 99/7/5

APPENDIX Q

PERMISSION TO CONDUCT RESEARCH

**EDUCATION, ARTS, CULTURE AND SPORTS  
NORTHERN PROVINCE  
(SOUTPANSBERG DISTRICT OFFICE)**

Tel. 015-516 1289/0194/5/6  
Fax. 015-516 3494

*The District Manager  
Private Bag X2009  
LOUIS TRICHARDT  
0920*

Ref.

J.G. Ramuedzisi

99.08.13

Enq:

Mr. Phaswana  
P.O. Box 470  
RAMOKGOPA

**PERMISSION TO CONDUCT RESEARCH IN THE SOUTPANSBERG  
DISTRICT SCHOOLS**

1. The above matter refers.
2. I have the pleasure to inform you that you may visit schools in our District to make arrangements for conducting your research. It will be a good idea to first contact the Circuit Manager before you start visiting schools in a particular circuit. The circuit contact telephones are as follows:
  - 2.1 Nzhelele East - 015. 9730028
  - 2.2 Nzhelele West and Soutpansberg North - 015. 9664004
  - 2.3 Soutpansberg East - 015. 5163280
  - 2.4 Soutpansberg west - 0020 Tshilwavhusiku 31.
3. We wish all the best in your research.

  
DISTRICT MANAGER, SOUTPANSBERG DISTRICT

APPENDIX R

APPLICATION TO CONDUCT RESEARCH

Tel: home: (015) 3974718

P. O. Box 470

Cell: 0829571042

RAMOKGOPA

28 April 2000

The Principal

.....

Dear Sir

APPLICATION: CONDUCTING RESEARCH: 16th May to 28th July 2000

I hereby make an application for conducting research in your school for the period mentioned above.

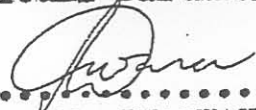
I am a registered student, doing PHD degree in the Department of Education Management, Faculty of Education, University of Pratoria. My promoter is Prof. Berkhout S.J.

My research topic is: "The impact of the hidden curriculum on the South African School leaving examination in the Northern Province."

My research will be in the form of structured questionnaires which shall be administered by one member of the staff (preferably) or by the researcher. The questionnaires shall be completed by the principal, 1999 grade 12 educators and 20% of the grade 12 learners which shall almost equally represent all the subject groupings. Duration of the survey is 1 hour.

Attached: Permission letter granted by the Soutpansberg District Manager.

Yours faithfully

  
.....  
M. M. PHASWANA (Mr).