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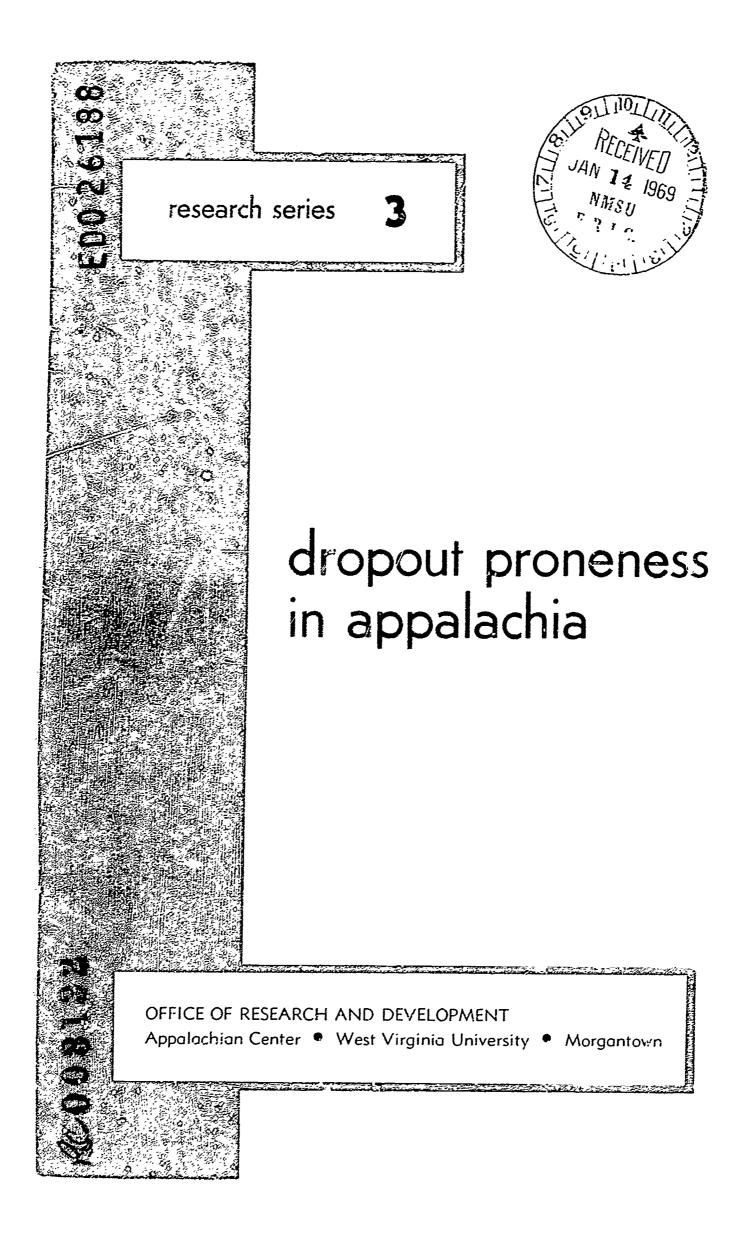
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Two aids used in the identification of potential dropouts are examined. The Mink Scale (a teacher-rated scale) is based on classification of social, psychological, and educational forces related to dropout proneness: (1) academic ability and performance, (2) negative identification with education, (3) family and socioeconomic status, and (4) student-personal. The Smith Inventory consists of a self-report inventory of 38 items completed by the student. Results are presented of an investigation of differences between Appalachian school dropouts and non-dropouts utilizing these instruments. Items are identified that differentiate between these 2 groups in Appalachia. The 2 scales are contained in the appendix of the document. (SW)







PREFACE

The alarming rate at which students withdraw from the junior and senior high schools is of great concern to a society whose future welfare depends in great part on the education of all its citizens. The late John F. Kennedy recognized the need for the optimal educational development of all members of society in his 1963 State of the Union message to Congress. He stated:

The future of any country which is dependent on the will and wisdom of its citizens is damaged and irreparably damaged, whenever any of its children is not educated to the fullest extent of his capacity from grade school through graduate school.

In West Virginia there has been a paucity of attempts to identify and help those students who are likely to discontinue their education before completion of high school. It would seem that a first step toward reduction of the problem would involve identification of those students who are "dropout prone." Recognizing the identification of "dropout prone" students as a necessary first step, two scales were constructed for the purpose of investigating differences between dropouts and non-dropouts in West Virginia. The purpose of this bulletin is to report the results of the investigation of dropouts and non-dropouts on the two scales. The research was conducted by the Division of Clinical Studies, College of Human Resources and Education of West Virginia University.

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DROPOUT PRONENESS IN APPALACHIA

by

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Research Series 3

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INTRODUCTION

Only a little over half of our nation's youth stays in school long enough to graduate. In West Virginia, the percentage of youth who do not finish high school is higher than for most states. Of the West Virginia public school students entering the ninth grade in 1961, only 61.8 per cent graduated from high school four years later. In the percentage of ninth graders who continued in school and graduated, West Virginia ranked forty-first in the nation in 1964. (State Rankings, 1965.)

Various results have been reported from research seeking to explain the school dropout. There are contradictory results as to the importance of intelligence or scholastic ability as a contributing factor. Some studies have rejected the idea that all dropouts are slow learners or functional illiterates (Rombouts, 1963; Bowman and Mathews, 1960; NEA Research Division, 1963). Poor reading and language development have been reported as characteristics of most dropouts (Penty, 1956; Findley, 1964). The value system is thought to be a differentiating factor between dropouts and those who remain in school.

One study reported that almost any method of measuring the extent the family valued education would differentiate dropouts from stay-ins (Illinois Dropout Study, 1962). Considered to be related to the value system of the individual, the poor social and educational environment in which the student lives is seen as a contributing factor in school dropouts (Skodak 1949; Tuel, 1966; Hollingshead, 1941).

Attempting to identify the "real" reasons for dropping out of school is a complex problem. It is likely that reasons vary from individual to individual and stem from varied conditions in the life of the student. However, while the conditions generating dropout proneness among youth are hard!y known, it is known that many social, psychological, and educational forces are related to dropout proneness.

Mink, after an extensive review of the literature, classified these forces into roughly four primary groups: (1) Academic Ability and Performance, (2) Negative Identification with Education, (3) Family and Socio-Economic Status, and (4) Personal (Mink, 1966). This classification was used as the basis for the construction of a scale to investigate differences in school dropouts and stay-ins in the Appalachian region junior high schools.



Chapter one presents the results of the investigation of differences between Appalachian school dropouts and non-dropouts on the Mink Scale. The instrument was constructed by Dr. Oscar G. Mink, Director of the Division of Clinical Studies, College of Human Resources and Education of West Virginia University.

Chapter two presents the results of an investigation of differences between dropouts and non-dropouts on the Smith Inventory. This instrument was constructed by John E. Smith, doctoral candidate in Counseling and Guidance, Division of Clinical Studies, College of Human Resources and Education of West Virginia University.

THE MINK SCALE

An Aid in the Identification of Potential Dropouts With a Teacher Rated Scale

The Mink Scale (see Appendix A) aids in the identification of potential dropouts through the use of a scale to be completed by school personnel. The Scale is divided into four sections: Academic Ability and Performance (8 items); Negative Identification with Education (11 items); Socio-Economic Status (14 items); and Student-Personal (12 items). The sections of the Scale roughly represent the social, psychological and/or educational forces related to dropout proneness. The items in the Scale have been found, in previous studies, to differentiate dropouts from non-dropouts and were selected after an extensive review of the dropout literature.

Information to complete the items on the Scale is to be obtained from the school record, acquaintance of the rater with the subject and/or by obtaining information from an informant, i.e., someone well-acquainted with the subject, such as a teacher.

Some limitations of the Scale were encountered in the tryout study and should be noted. The record system of some schools is such that information is not available to complete the majority of the items on the Scale. Also, some schools may not, for various reasons, have school personnel available to complete the items where a fairly good acquaintance with the subjects is needed.

For example, if one wishes to identify potential dropouts in grade seven, and most of the seventh graders attended sixth grade in feeder schools, it may be quite difficult to obtain information concerning the students beyond that available in the records. In such a case as that just described, it is recommended that another approach to the identification of potential dropouts be considered. This bulletin presents one other method of identification. Chapter II presents the results of a self-report inventory administered to a group of dropouts and non-dropouts.

The Mink Scale items were put to test during the 1966-67 school year in a comparative study of dropouts and non-dropouts conducted by the Division of Clinical Studies, College of Human Resources and Education of West Virginia University. A description of the subjects, methods and procedures of the study and detailed results follow.



The subjects in the study were 189 students (dropouts) who were in the seventh grade in 1961 or later and 262 current high school seniors (non-dropouts) who were also in the seventh grade at that time. Of the dropouts, 101 were males and 88 were females. TABLE 1 shows the distribution of dropouts by grade dropped. The non-dropouts were composed of 131 ma'es and 131 females. The sample was taken from five school systems in five Appalachian counties, four in West Virginia and one in Pennsylvania.

The forty-five item Mink Scale was constructed from items found in the literature to differentiate between dropouts and non-dropouts. The scale was completed for each subject in the study by the school counselor in three counties and by a research assistant in two counties where counselors were not available. School records were the primary source of data for completion of the items. However, school personnel well acquainted with the subjects and/or their families also gave information on many items. In the three counties where the school counselors completed the scales, the counselors were well acquainted with many of the dropouts. However, the research assistant had to rely entirely on the school records and school personnel acquainted with the subjects.

TABLE 1. MINK SCALE

Distribution of Dropouts by Grade Dropped

		Males	I	Females	Total Dropouts		
Grade Dropped	No.	Per Cent*	No.	Per Cent*	No.	Per Cent*	
Seventh	9	10.6	6	7.6	15	9.1	
Eighth	16	18.8	7	8.9	23	14.1	
Ninth	23	27.1	15	19.0	38	23.2	
Tenth	21	24.7	25	31.6	46	28.0	
Eleventh	10	11.8	17	21.5	27	16.5	
Twelfth	6	7.0	9	11.4	15	9.1	
Unknown	16		9		25		
Total	101		88		189		

^{*}Base excludes "unknown".

It should be noted that there were missing data on many items due to lack of information in school records or unavailability of school personnel well enough acquainted with the subject to provide information necessary for completion of an item. Therefore, scales were completed for each subject as fully as available information would allow.

All information was recorded retrospectively in terms of information relating to seventh grade or as near to seventh grade as possible, i.e. intelligence quotient obtained in grade seven, num-

ber of days absent in grade seven, etc. It was thought that the seventh grade is the level at which the data for the two groups should be collected and items identified which are valid for differentiating between dropouts and non-dropouts.

The data were analyzed by chi-square tests computed on each item for (1) total dropouts and total non-dropouts, (2) male dropouts and male non-dropouts, and (3) female dropouts and female non-dropouts. TABLE 2 shows the scale items, distribution of responses and computed chi squares.

TABLE 2. MINK SCALE

Items, Distribution of Responses, and Computed Chi-Squares

ITEM		R	ESPON	SES		X:*	df	P
Academic Ability and		_	-	_	•			
Performance								
1. How many years older	•							
or younger is he than					3 or			
the other students in his	-1	0	1	2	more			
grade?								
Total Dropouts	6	85	53	26	16	77.71	4	<.001
Total Stayins	8	214	30	8	Ō		-	\
Male Dropouts	2 2	40	26	20	11	41.81	2	<.001
Male Stayins	2	107	18	4	0		-	
Female Dropouts	4	45	26	7	5	20.71	2	<.001
Female Stayins	6	107	12	4	0			•
2. Has he been retained in		1	2	3	4 or			
grade?	No		Years	Years	more			
•								
Total Dropouts	86	55	29	14	2	78.46	3	<.001
Total Stayins	221	32	6	2	ō	70.40	3	< .001
Male Dropouts	33	31	23	10	2	45.99	2	<.001
Male Stayins	101	25	4	ì	õ	3.7.00	4	< .001
Female Dropouts	53	$\overline{23}$	7	$\hat{4}$	ŏ	25.28	1	<.001
Female Stayins	120	7	2	ī	ŏ	45,40	•	₹.001
B. What is his current	A	В	С	ъ	r			
grade point average?				D	F			
Total Dropouts	l	18	72	66	22	110.49	4	<.001
Total Stayins	18	1)0	116	22	2	~~ - /	_	
Male Dropouts	0	1	34	46	16	85.74	3	<.001
Male Stayins	4 1	49 17	64	11	2	01.00		
Female Dropouts Female Stayins	14	17 51	38 52	20	6	21.08	3	<.091
Temale Stayins	17	91	34	11	0			
. Is he presently failing		_	_	_	4 or			
subjects?	No	1_	2	3	more			
Total Dropouts	111	15	11	16	20	55.89	4	<.001
Total Stayins	229	14	4	4	l			
Male Dropouts	53	9	5	12	13	32.30	4	<.001
Male Stayins	110	9	3	2	1			•
Female Dropouts	58	6	6	- 4	7	3.28	1	> .^5
Female Stayins	119	5	1	2	0			

^{*}Cell Collapsed if expected N in cell is less than 5.

ITEM		RE	SPON	SES		X≈	df	P
5. Is his reading level be-		1	2	3	4 or			
low his grade level?	Nο		Years	Years	_			
Total Duamanta		91		LJ 16		69.59	3	<.001
Total Dropouts Total Stayins	68 189	24 34	41 15	16 0	5 0	09.59	3	<.00.
Male Dropouts	24	14	22	14	5	52.13	3	<.001
Male Stayins	92	15	9	0	0	10 80	0	< 001
Female Dropouts	44 97	11 19	18 6	$\frac{2}{0}$	0 0	16.73	2	<.001
Female Dropouts		19	U	9	-			
6. What is his IQ score?	Below 70	70-79	80.80	90-100	Above 100			
Total Dropouts	5	25	43	44	32	76.69	3	<.001
Total Stayins	Ü	7	21	60	154			
Male Dropouts	4	21	21	19	12	41.39	3	< .001
Male Stayins	0	5	8	36	69	00.64	o	< 001
Female Dropouts Female Stayins	1 0	4 2	22 13	25 24	20 85	28.64	2	<.00!
•		~	13	-1				
Special projects com- pleted in or outside of	0	ì	2	3	4 or more			
school? (i.a., 4.H, Scouts)		Ò	Ô	Ŏ				
Total Dropouts	101	35	3	2	0	53.30	4	<.001
Total Stayins	74	97	17	15	14	• • • • • • • • • • • • • • • • • • • •	_	•
Malc Dropouts	-18	20	2	0	0	12.56	1	<.001
Male Stayins	44	54	8	6	6	OF 7:4	,	- 001
Female Dropouts Female Stayins	53 30	15 43	1 9	$\frac{2}{9}$	0 8	25.74	l	<.001
•	50	13	J	,				
8. Special hobbies?	0	ı	2	3	4 or more			
	Ŏ	Ô	Ō	Ŏ				
Total Dropouts	<u>.</u>	15	4	5	ì	55.56	4	<.001
Total Stayins	32	48	32	18	11			
Male Dropouts	32	9	0	l	l	36.28	3	<.001
Male Stayins	15	24 6	17 4	13 4	5 0	22.22	2	<.001
Female Dropouts Female Stayins	34 17	24	15	5	6	44.44	_	001
•				-				
legative Identification with Education								
l. Is he usually happy in				Yes	No			
school?								
	Total	Drop	outs	75	69	87.59	1	<.001
	Total	Stayi	ns	96	11		_	
		Dropo		30	46	59.38	Ĭ	<.001
	Male	Stayin le Dro	lS Doute	94 44	7 23	29.10	1	<.001
		le Stay		102	4	45.10	•	\
2. Does he participate in		,						
extracurricular activities								
such as sports, band,				Yes	No			
clubs?								
		Drop		46	117	69.89	I	<.001
		Stayin		152	60 68	40.00	1	/ 001
		Dropo Stayin		21 72	68 32	40.00	ì	<.001
	Mulc	~ tu y 111	.,				_	
		c Dro	pouts	25	49	29.20	l	<.001

ITEM	RESPON	X≉	df	P		
3. Is he assent 20 or more days 2 year? (Pro-rate)		Yes	.Yo	40.00		
	Total Drepouts Total Stayins Male Drepouts	73 9	114 . 248	90.83	1 1	<.001
	Male Dropouts Male Stayins	46 4	55 123	59.12		<.001
	Female Dropouts Female Stayins	27 5	59 125	31.13	1	<.001
4. Does he seem to be liked by his schoolmates?	I	Yes	No			
by ms schoolmates:	Ttoal Dropouts Total Stayins	113 202	35 6	36.54	1	<.001
	Male Dropouts	51	24	31.12	1	<.001
	Male Stayins Female Dropouts Female Stayins	100 61 102	11 4	7.35	1	< .01
5. Does he attend formal						
school functions? (dances, parties, special clubs, etc.)		Yes	No			
•	Total Dropouts	55 55	115	66.93	1	<.001
~:	Ttoal Stayins Male Dropouts	183 28	69 59	29.13	1	<.001
	Male Stayins Female Dropouts Female Stayins	89 27 94	39 35 30	37.45	1	<.001
6. Does he claim little or						
no interest in school- work?		Yes	 			
	Total Dropouts Total Stayins	97 51	74 200	59.20	1	<.001
	Male Dropouts Male Stayins	64 33	24 93	45.28	1	<.001
	Female Dropouts Female Stayins	33 18	49 107	17.81	1	<.001
7. Does he resent school		Yes	No			
controls?	Total Dropouts	□ 68	□ 80	37.15	1	<.001
	Total Stayins Male Dropouts	33 48	171 28	31.67	1	<.001
	Male Stayins Female Dropouts	21 20	78 51	7.98	1	< .01
	Female Stayings	12	93			
8. Do the teachers like or show an interest in him?		Yes □	No □			
	Total Dropouts Total Stayins	91 172	64 26	36.27	1	<.001
	Male Dropouts Male Stayins	40 81	44 15	27.47	1	<.001
	Female Dropouts Cemale Stayins	50 91	21 11	9.79	ì	< .01

ITEM	RESPONS	X=*	df	P		
9. Is overageness apparent?		Yes	No			
	Total Dropouts	20	126	11.99	I	< .01
	Total Stayins	7	191			
	Male Dropouts	1-4	66	8.17	1	< .01
	Male Stayins	-1	90			
	Female Dropouts	6	59	1.40	1	> .05
	Female Staying	3	101			
10. Does he like to read?		Yes	No			
	Total Dropouts	$\frac{-}{45}$	125	18.49	1	<.001
	Total Stayins	120	134			,
	Male Dropouts	13	7.4	16.43	I	<.001
	Male Stayins	53	77			
	Female Dropouts	32	50	4.45	I	< .05
	Female Stayins	67	57			
II. Does he seem to parti						
cularly like one teacher		Yes	No			
or teachers?						
	Total Dropouts	72	96	17.02	I	<.001
	Totai Stayins	153	88			•
	Male Dropouts	31	55	7.51	l	< .01
	Male Stayins	68	55			
	Female Dropouts	40	41	10.55	l	<.001
	Female Stayins	85	33			

MINK SCALE - Responses for Dropouts and Stayins

ITEM	RESPONS	RESPONSES				P
Family and Socio-Economic Status						
1. Is father s occupation		Yes	No			
unskilled or semi-skilled?						
	Total Dropouts	144	16			
	Total Stayins	175	74	22.07	1	<.001
	Male Dropouts	80	2			
	Male Stayins	87	37	24.14	1	< .001
	Female Dropouts	64	14	a .=	_	
	Female Stayins	88	37	3.47	1	> .0:
2. Is the parents' attitude apathetic or negative						
toward completing his		Yes	No			
high school education?						
_	Total Dropouts	77	85			
	Total Stayins	40	200	44.65	I	<.001
	Male Dropouts	45	39			•
	Male Stayins	21	102	30.62	1	<.001
	Female Dropouts	32	46			
	Female Stayins	19	98	14.89	1	<.001

ITEM		RE	SPON	X≈≉	df	P .		
2. Education completed by mother:	Post H.S.	H.S. Grad.	8-11 [] 41	5.8 □ 76	less than 5			
Total Stayins Male Dropents	24 2	100 15	82 19	31 43	0 4	71.71	3	<.001
Male Stayins Female Dropouts Female Stayins	8 1 16	53 19 47	43 22 39	21 32 10	0 5 0	31.77 34.84	3 9	<.001
4. Education completed by father: Total Dropouts	Post H.S.	H.S.		5-8	less than 5	31.01	~	\
Total Stayins Male Dropouts	20 I	i00 11	70 19	41 46	1 - <u>1</u>	64.97	3	<.001
Male Stayins Female Dropouts Female Stayins	9 I j I	51 19 49	38 18 32	23 34 18	1 5 0	35.82 20.25	2	<.001 <.001
5. Do parents frequently point out his weaknesses?	Total Total Male Male Fema	Drope Stayie Dropo Stayin le Dro le Stay	outs ns uts ss	Yes 22 23 14 10 8 13	No	1.01 1.66 .03	I I	> .05 > .05 > .05
6. Is his home more than 5 miles from school?	Total Total Male Male Femal	Dropo Stayin Dropo Stayin e Drop e Stay	is uts s oouts	Yes	No 96 144 48 70 48 74	1.14 1.33 .09	I I I	> .05 > .05 > .05
7. Does anyone besides his parents and siblings live in his home?	Total Total Male Male Femal	Dropo Stayir Dropo Stayins e Drop e Stay	ns uts s oouts	Yes	No	.15 .20 .01	I I 1	> .05 > .05 > .05
8. Number of brothers and/or sisters who did not finish high school: Total Dropouts Total Stayins Male Dropouts Male Stayins Female Dropouts Female Stayins	0 32 79 14 34 18 45	1 8 7 5 5 3 2	2 9 5 4 1 5 4	3 2 4 2 2 2 0 2	4 or more 8 5 4 1 1 4	10.62 10.62 2.62 1.88	2 2 1	< .01 < .01 > .05 > .05

ITEM		RE	SPONS	SES	X:\$	<u>df</u>	P	
9. How many broth he have?	G 	1	2	3 	4 or mere			
Total Dropo Total Stayin Male Dropot	s 52	27 58 11	26 37 15	11 24 6	8 16 5	1.86	-1	> .0
Male Stayins Female Drop	23	28 16	17 12	16 5	8 3	4.05	-4	< .0
Female Stayi		30	20	8	8	.32	3	> .(
0. How many siste he have?	ers does	I	2	3	4 or more			
Total Dropo		□ 30	□ 26	9	5	7.73	3	> .0
Total Stayin Male Dropot Male Stayins	its 12	20 28	15 14	4 8	3 3	8.23	3	< .0
Female Drop Female Stayi	outs 12	10 37	11 16	6 8	2 2	3.59	3	> .
l. Are his parents o ern European tion?	extrac-	al Drope	ou <i>t</i> s	Yes	No 			
	Tota	al Stayi e Drop	ns	139 73	25 7	.76	1	> .
	Mal Fem	e Stayii ale Dro ale Stay	is pouts	68 47 71	10 9 15	.68 .05	1	> . > .
2. What is the established family income: Total Dropot Total Stayin Male Dropot Male Stayins Female Drop Female Stayin	outs s its s	52 19 31 11 21	(11 2 5	57 0 87 44 29	5 37 2 13 3 24	45.03 20.39 23.50	2 2 2	00.> 00.> 00.>
3. Are parents in in school policipractices?	ies and Tota Tota Mal Mal Fem	al Drop al Stayi e Dropo e Stayii ale Dro ale Stay	ns outs is opouts	Yes 35 116 13 56 22 60	No	79.06 51.74 27.60	1 1 1	<.00 >.00 >.00 >.00
4. Docs he reside v biological parent	:s? Tot: Tot: Mal Mal	al Drop al Stayi e Dropo e Stayii ale Dro	ns outs 18	Yes 141 194 76 90 65	No 18 16 10 8 8	1.48 .62	1 1 1).).).

ITEM	RESFONSES	X₁≉	df	P
Personal		-		
1. Does the student appea to lack the basic finan cial requirements fo school?	-	18.86 4.79 14.53	1 1 1	<.001 < .05 <.001
2. How many hours per week does the student work? (Either in the home such as farm chores or outside the	less than over 5 5-10 10-15 16-20 20			
home.) Total Dropouts Total Stayins	□ □ □ □ □ □ □ 113 40 11 2 0 160 57 20 2 3	.416	2	> .05
Male Dropouts Male Stayins	54 25 7 0 0 82 27 9 2 0	1.13	2	> .05
Female Dropouts Female Stayins	59 15 3 2 0 78 30 11 0 2	3.36	2	>.05
3. Is the student frequent- ly ill or easily fatigued?	Yes No □ □ Total Dropouts 27 122 Total Stayins 24 179 Male Dropouts 13 64 Male Stayins 10 87 Female Dropouts 13 58 Female Stayins 14 92	2.75 1.62 .86	I I I	> .05 > .05 > .05
4. Is there an obvious physical handicap?	Yes No	.06	I	> 05
	Male Dropouts 8 78 Male Stayins 7 80	.09	I	> .05 > .05
	Female Dropouts 2 66 Female Stayins 6 88	.05	1	> .0.5
5. Does the student feel sorry for himself?	Sel-Some- Fredom times quent Total Dropouts 53 66 9		•	, .vu
	Total Stayins 121 36 1 Male Dropouts 23 41 7	34.51	2	<.001
	Male Stayins 56 21 0 Female	19.45	I	<.001
	Dropouts 29 25 2 Female Stayins 65 16 1	11.65	I	<.001

ITEM	RESPONSES	X:*	df	F
6. Does he feel that standards are set too high for him?				
	Total Dropouts 46 66 16 Total Stayins 110 47 1	39.98	2	<.001
	Male Stayins 49 28 0 Female	33.61	I	<.001
	Dropouts 30 24 3 Female Stayins 61 19 1	6.34	I	< .05
7. How many schools has he attended?	0 1 2 3 more			
Total Dropouts Total Stayins	40 54 43 8 4 50 74 30 3 3 22 29 24 5 4	8.36	3	< .05
Male Dropouts Male Stayins Female Dropouts	28 37 10 1 I 18 25 19 3 0	7.75	2	< .05
Female Stayins	22 37 20 2 2	.71	2	> .05
8. Is the student too small or too big for his age?				
	Total Stayins 13 146 Male Dropouts 9 60	.10	I	> .05
	Male Stayins 5 73 Female Dropouts 3 57	1.87	1	> .05
9. Does he have a disci-	Female Stayins 8 73 Sel-Some- Fre	.54 -	I	> .05
pline record at school?	dom times quen Total Dropouts 90 50 16	itly		
	Total Stayins 183 13 3 Male Dropouts 38 37 14	57.95	2	<.001
	Male Stayins 83 10 1 Female	43.41	2	<.001
	Dropouts 52 13 2 Female Stayins 100 3 2	13.48	1	<.001
10. Do teachers say he is irritating in class?	dom times quen			
	Total Dropouts 92 50 9 Total Stayins 147 16 2 Male Dropouts 40 39 8	34.07	2	<.001
	Male Dropouts 40 39 8 Male Stayins 66 12 0 Female	21.09	1	<.001
	Propouts 52 11 I Female Stayins 81 4 2	6.47	1	< .05

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ITEM	RESPO	NSE	X≈	df	P		
11. Has he ever purposely		Sel	- Son	ne- Fre	<u> </u>		
damaged school proper-	•	don	ı tim	es quen	tly		
ty?			٦	ח ה	•		
	Total Dropouts	137	11	īī			
		191	3		7.41	1	< .05
	Male Dropouts	76		3 1	• • • •	•	0.5
	Male Stayins	89	2	0	2.27	ì	> .05
	Female						
	Dropouts	61	3	0			
	Female Stayins	102		1 0	.06	1	> .05
12. Would you describe his							
best friend as planning		•	Yes	No			
to quit school?							
<u>-</u>	Total Dropouts		67	59			
	Total Stayins		5	154	93.19	1	<.001
	Male Dropouts		45	23	30.13	•	₹.001
	Male Stayins		2	7 5	66.63	ì	<.001
	Female Dropout	S	2 21	36		-	\
	Female Stayins		3	79	25.92	1	<.001

DISCUSSION OF RESULTS

Academic Ability and Performance. All of the items in this section differentiated between dropouts and non-dropouts with one exception. There was no significant difference between the number of courses being failed by female dropouts and female non-dropouts in the seventh grade. However, that female dropouts exhibited poorer academic performance than female non-dropouts can be attested to by the significant differences found in number of years retained, grade point average and reading level. The highly significant differences found for items in the Academic Ability and Performance section indicate that low academic performance is an important variable in identifying dropout prone students.

Negative Identification with Education. Only one item in this section failed to turn up a significant difference between dropout and non-dropout groups. The item, apparentness of overageness, did not differentiate between female dropouts and non-dropouts. The commonly he'd belief that students who eventually discontinue do not have positive feelings about school, and that these feelings are reflected by their behavior, was supported by the results of this study.

The fact that dropout groups partcipated less in extracurricular activities and formal school functions probably reflects a feeling

of not really being a part of the school community. Excessive absenteeism also reflects a desire on the part of the dropout to stay away from a situation that is viewed negatively. It is also interesting to note that dropouts were seen as being liked by their schoolmates less often than non-dropouts.

When one considers the results of the sections Academic Ability and Performance and Negative Identification with Education together, certain questions arise. Does poor academic performance lead to negative feelings and subsequent negative behavior in the school situation? Or, does negative identification with education cause minimal efforts and subsequent poor academic performance? Also, what part does the ability factor (dropouts were significantly lower on intelligence test scores) and the school's provisions for students of low ability play? These questions cannot be answered from the results of this study.

Family and Socio-Economic Status. It is interesting to note that the two items which might be considered to reflect the parent's attitudes and values toward education significantly differentiated dropout and non-dropout groups. These items are whether parents' attitude is negative or apathetic toward education and parent's interest in school policies and practices. It is known that children introject many of the attitudes and values of their parents.

If parents do not value an education and show an interest in school practices, their children will show similar behavior. The lower educational level of parents, lower family income level, and lower occupational level of fathers (except for females) support the idea that dropouts as a group come from a lower socio-economic class than non-dropouts. No support was found for the commonly held beliefs that dropouts live greater distances from school than non-dropouts and more often do not live with their biological parents.

Personal. The Personal section yielded several interesting results. Dropouts compared to non-dropouts were more often seen as feeling sorry for themselves, going without the basic financial requirements for school, having a discipline record, feeling that standards were set too high for them, being irritating to teachers, and having a best friend who planned to quit school. The fact that more dropouts were seen as not having the basic financial requirements for school is related to the lower socio-economic level of dropouts.

That dropouts were seen as more often feeling sorry for them-

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selves may be related to several factors; lower ability, lower socioeconomic level, lower academic performance, and perhaps a general feeling of alienation from the school situation. The finding that dropouts had a discipline record more often than non-dropouts is related to the fact that teachers saw the dropout as more irritating in class and that dropouts as a group (but not for males and females when total group was broken down) more often purposely damaged school property.

Undesirable conduct on the part of many dropouts may be a reflection of their lack of positive identification with school personnel and the school environment in general. The finding that dropouts more often tha non-dropouts have a best friend who is planning to quit school indicates that dropouts may segregate themselves, perhaps because of the common characteristics they possess.

Items which did not significantly differentiate any of the groups were number of hours per week the student worked, frequency of illness of the subject, presence of an obvious physical handicap and whether the student was too big or too small for his age. Four of the five school districts from which subjects were drawn are located in rural communities and offer little opportunity for after school employment.

SUMMARY AND CONCLUSIONS

Of the forty-five items surveyed, only eight failed to differentiate the total group of dropouts from non-dropouts. Of the thirty-seven items that showed a significant difference between the total dropouts and non-dropouts, thirty-one also differentiated significantly between male dropouts and male non-dropouts, and female dropouts and female non-dropouts.

The results of this study show that, for the most part, items differentiating between dropouts and non-dropouts in other studies also differentiated between dropouts and non-dropouts in Appalachia.

The profile of the dropout prone student emerging from this study is a student probably of lower than average measured intelligence, performing poorly in academic tasks, somewhat negative about the school situation as shown by little participation in school activities and often becoming a discipline problem, and coming from a family that does not value education highly and has a history of low educational attainment. Although items that differentiated

for males or females but not for both can be identified from Table 2, the basic profile seems to fit both males and females.

All items in the sections Academic Ability and Performance and Negative Identification with Education differentiated between dropouts and non-dropouts. However, it is likely that dropout characteristics emerging from these two sections are an outgrowth of attitudes, values, and beliefs learned in the family.

In other words, it is probable that the home and family of the dropout prone student set the stage for poor academic performance and negative identification with education. It is also probable that the school, in many cases, is poorly equipped to combat the roots of dropout proneness that many students already have established when they enter school.

Students who do not find school to be a meaningful experience often show little participation in school activities, either academic or social. When the school is not able to make experiences meaningful, the student desires to remove himself from the situation and may be termed a "force-out."

Most schools recognize that many of their youth are dropouts or eventually will drop out; however, little is done directly to alleviate the problem. Perhaps the complexity of the problem discourages the local school system from trying to discover what makes a dropout and what to do about it.

However complex the problem may be, ignoring it is to abdicate a responsibility. The school is obligated to take action with the objective of remedying the dropout problem. The highly individual nature of each potential dropout's problem persistently brings us back to the responsibility of his individual school. The problem needs to be attacked intelligently in the school, where the potential dropout is, where he can be observed, and where he can be helped.

It is the concern of this report to present items that have differentiated between dropouts and non-dropouts in Appalachia. It is the hope of the authors that the results of this study will be one step in the direction of better identification of those students who are dropout prone. It is the further hope of the authors that constructive approaches will be made by school systems in an attempt to combat the dropout problem.



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THE SMITH INVENTORY

An Aid in the Identification of Potential Dropouts Through the Use of a Self-Report Inventory

The Smith Inventory (see Appendix B) was constructed after it was recognized that the Mink Scale had limitations in some schools. The Mink Scale requires adequate school records and school personnel well-acquainted with the students to be surveyed for dropout proneness. These conditions are not always met in some schools. The unith Inventory consists of 38 items to be completed by the studen.

Recognizing the value of the extensive review of literature from which The Mink Scale items were developed, The Smith Inventory includes many of these items stated in such a manner as to elicit a response from the student himself. The first 34 items consist of questions which can be answered by the student checking one of from three to five alternatives. The last four items of the Inventory attempt to assess the attitude of the student by requiring him to make value judgments on four important educational issues. A positive and negative direction regarding dropout proneness for the alternative responses is obvious.

In order to test the ability of The Smith Inventory items to differentiate between dropouts and non-dropouts, a study was conducted by the Division of Clinical Studies, College of Human Resources and Education of West Virginia University. The subjects consisted of 123 dropouts (61 males and 62 females) and 207 non-dropouts (114 males and 93 females). The sample was taken from the counties of Harrison, Monongalia and Wayne in West Virginia and Fayette in Pennsylvania. TABLE 3 shows the distribution of dropouts by grade dropped. The non-dropouts were high school seniors at the time of the study.

TABLE 3. SMITH INVENTORY
Distribution of Dropouts by Grade Dropped

		Males]	Females Total Dropo		
Grade Dropped	No.	Per Cent*	No.	Per Cent*	No.	Per Cent*
Seventh	3	5.5	<u> </u>	2.2	4	4.0
Eighth	13	23.6	3	6.7	16	16.0
Ninth	17	30.9	13	28.9	30	30.0
Tenth	15	27.3	16	35.6	31	31.0
Eleventh	6	10.9	10	22.2	16	16.0
Twelfth	1	1.8	2	4.4	3	3.0
Unknown	6		17		23	
Total	61		62		123	

^{*}Base excludes "unknown".



During the 1966-67 school year, names and addresses of 100 dropouts over the past six years were secured from school officia's in each of the four counties in the study. The Smith Inventory was mailed to the 400 students and 114 returned usable Inventorics. A fol'ow-up letter urging non-respondents to return the Inventory brought in only a few additional Inventories. The low rate of response (28.5%) is characteristic of studies with school dropouts. The seniors were administered the Inventories in their respective high schools. Because it was thought that the seventh grade is the level at which the Inventory will be most useful to school personnel, all subjects were instructed to complete the items as they would have completed them when they were in the seventh grade. These directions were given orally to the seniors and in the written instructions to the dropouts.

The Inventory items were analyzed by chi-square tests computed on each item for (1) total dropouts and total non-dropouts, (2) male dropouts and male non-dropouts. (3) female dropouts and female non-dropouts. TABLE 4 presents the items, distribution of responses and computed chi-squares.

TABLE 4. SMITH INVENTORY

Items, Distribution of Responses, and Computed Chi-Squares

tens, Distribution of Responses, and computed consequences								
ITEM		RESPO	NSES		X2*	df	P	
1. How old were you in the seventh grade?	13 or under		15	over 15				
Total Dropouts	67 188	36 1'		il	38.68	1	< .01	
Total Non-Dropouts Male Dropouts Male Non-Dropouts	27 103	22		7 2	31.71	1	<.001	
Male Non-Dropouts Female Dropouts Female Non-Dropouts	41 85	14		2 7 2 4 0	7.80	I	< .01	
2. Were you failing any of your subjects in the seventh grade?	none	one	two	three or more				
Total Dropouts Total Non-Dropouts	66 179	17 21	15 6	16 1	46.60	3	< .01	
Male Dropouts Male Non-Dropouts	25 90	8 19	9	14 1	17.38	2	< .01	
Female Dropouts Female Non-Dropouts	42 89	9	4 6 2	2	5.84	1	< .05	
3. How much time did you spend reading a day?	very much	much	little	very little				
Total Dropouts Total Non-Dropouts	32 52	34 7 5	22 40	24 39	1.31	3	> .50	
Male Dropouts Male Non-Dropouts	14 27	14 42	10 21	16 24	2.52	3	> .05	
Female Non-Dropouts	19 25	20 33	12 19	8 15	.53	3	> .05	

^{*}Cell dropped if expected N in cell is less than 5.

ITEM		RESPO	NSES		X≫	df	P
4. How well did you like arithmetic?	very much	much	little	verv little		-	
Total Dropouts Total Non-Dropouts	42 68	29 54	29 43	15 42	3.16	3	> .05
Male Dropouts Male Non-Dropouts	19 41	16 36	14 20	8 17	1.19	3	> .05
Female Dropouts Female Non-Dropouts	24	13	15	7	5.46	3	> .05
5. Have you ever failed a grade before the seventh			t.	wo or			
grade?	none	one		nore			
Total Dropouts Total Non-Dropouts	52 170	44 33		16 4	47.40	2	10. >
Male Dropouts Male Non-Dropouts	17 89	24 22		13	38.76	2	10. >
Female Dropouts Female Non-Dropouts	36 81	20 11		3 1	11.81	I	< .01
6. Did you think you were getting enough out of your school?	yes 1	usually :	seldom	no			
Total Dropouts Total Non-Dropouts	31 88	32 69	13 12	37 38	14.55	3	< .01
Male Dropouts Male Non-Dropouts	10 47	12 32	6 8	28 27	15.0	3	< .01
Female Dropouts Female Non-Dropouts	21 41	21 37	7 4	9 11	2.16	3	> .05
7. Did you like your school work?	yes ı	isually s	eldom	no			
Total Dropouts	35	46	10	25	5.28	3	> .95
Total Non-Dropouts	57 17	92 14	29 8	28 18	5.74	3	> .05
Male Non-Dropouts	30	46	16	21	J., 1	Ü	/ .00
Female Dropouts Female Non-Dropouts	19 27	32 46	2 13	7 7	5.09	3	> .05
8. How many days have you missed classes dur the seventh grade?	0-9	10-19		or			
Total Dropouts Total Non-Dropouts	58 163	35 37		ore 21 6	34.74	2	< .01
Male Dropouts Male Non-Dropouts	32 94	14 16		11 -4	9.57	2	< .01
Female Dropouts Female Non-Dropouts	26 69	22 21		10 2	11.78	ì	10. >
9. Did you like other students in your class?							
	almost m			almost			
Tend Dropouts	64	them of 36	13	3	5.89	2	> .05
Teral Non-Dropouts Male Dropouts Male Non-Dropouts	122 30	74 19	9 5	2 3	.99	I	> .05
Male Non-Dropouts Female Dropouts Female Non-Dropouts	66 35 56	42 17 32	4 8 5	$\frac{2}{0}$	3.16	1	> .05

ITEM		RESPO	NSES		X≈	d£	P
10. How did you like your	very		_	very			
school?	much	much	little	little			
Total Dropouts	24	49	25	18	4.52	3	> .05
Total Non-Dropouts Male Dropouts	35 8	99 18	51 17	19 14	7.48	3	> .05
Male Non-Dropouts	21	49	33	11	7.40	3	/ .0.5
Female Dropouts	16	32	8	4	4.32	2	> .0.7
Female Non-Dropouts	!4	50	21	8			
II. Did you attend school							
ball games, dances, or parties?	******	seldom	alean	very often			
Total Dropouts	23	32	37	26	9.82	3	< .05
Total Non-Dropouts	23 23	59	57 57	20 77	7.02	3	< .05
Male Dropouts	12	12	19	14	5.37	3	> .05
Male Non-Dropouts	13	31	29	41			
Female Dropouts	11	21	18	12	8.46	3	< .05
Female Non-Dropouts	10	19	28	36			
2. How do you think your	very			very			
teachers liked you?	much	much	little	little			
Total Dropouts	18	52	29	18	11.19	3	< .05
Total Non-Dropouts Male Dropouts	31 6	122 24	41 13	12 14	10.75	3	< .05
Male Non-Dropouts	18	60	28	8	10.75	э	< .05
Female Dropouts	12	28	17	4	7.10	2	< .05
Female Non-Dropouts	13	62	13	4			
3. How well did you like	very			very			
your teachers?	much	much	little	little			
Total Dropouts	37 33	48 126	20	12	17.23	3	< .01
Total Non-Dropouts Male Dropouts	33 12	23	37 13	10 8	4.50	3	> .05
Male Non-Dropouts	19	64	22	8	1.50	3	/ .03
Female Dropouts	25	26	7	4	14.06		< .01
Female Non-Dropouts	14	62	15	2			
4. How did you get along							
with other students in your class?	very well	well	ot very well	not at all			
Total Dropouts	50	57 05	8	1	2.15	2	> .05
Total Non-Dropouts Male Dropouts	102 28	95 22	8 6	0 1	1.47	1	> .05
Male Non-Dropouts	58	5i	4	0	1.7/	•	/ .03
Female Dropouts	23	35	2	ő	1.51	1	> .05
Female Non-Dropouts	44	44	4	0			
5. How many friends did	more			less			
you have in school?	than 10		tl	nan 5			
Total Dropouts	102	11		4	.27	i	> .05
Total Non-Dropouts	184 52	19 4		4	Λ9	1	> 0#
Male Dropouts Male Non-Dropouts	102	9		3	.03	1	> .05
Female Dropouts	51	7		3	.11	1	> .05
Female Non-Dropouts	82	10		1			-

	ITEM	R	ESPONSE	S	<i>X:</i> ≉	df	P	
16.	To how many school	l						
	teams or clubs did you			_				
	belong?	none	1.2	3 or more				
	Total Dropouts	62	50	6	13.63	2	0. >	
	Total Non-Dropouts	82	35	4(;				
	Male Dropouts	28	25	-1	-1.0	2	> .0.	
	Male Non-Dropouts	44	50	20		41		
	Female Dropouts	35	25	2	10.75	2	< .0	
	Female Non-Dropouts	38	35	20				
17.	How far did your father	•						
	go in school?	12th grade		7th grade				
		or higher	11th grad	e or less				
	Total Dropouts	31	49	38	49.92	2	< .0	
	Total Non-Dropouts	117	73	16				
	Male Dropouts	13	24	20	23.58	2	< .0	
	Male Non-Dropouts	64	39	[]	.0.00	4.		
	Female Dropouts	19	25	18	19.68	2	< .0	
	Female Non-Dropouts	53	34	5				
8.	How far did your	12th grade	8th to	7th grade				
	mother go in school?	or higher						
	Total Dropouts	38	54	25	39.52	2	< .0	
	Total Non-Dropouts	138	57	12			-	
	Male Dropouts	21	28	7	7.43	2	< .0	
	Male Dropouts	68	36	10				
	Female Dropouts	18	26	18	39.44	2	< .0	
	Female Non-Dropouts	70	21	2				
			didn't car	e				
19.	Do you think your		if you	did no	t			
	no monto.							
	parents:	wanted you		id believe th				
	•	to finish	not finis	h school wo	ulá			
	•		not finis	h school wo	ulá			
	•	to finish	not finishhigh scho	h school wo ool help you 4	ulá	1	> .0	
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	Total Dropouts Total Non-Dropouts Male Dropouts Male Non-Dropouts Female Dropouts Female Non-Dropouts In your school work, did your parents: Total Dropouts Total Non-Dropouts Male Dropouts Male Non-Dropouts Female Dropouts Female Non-Dropouts	to finish high school 108 202 51 10 58 92 encourage 110 200 52 107 59 93 both	not finis high scho 6 2 3 1 3 1 you disco	h school wo ool help you 4 0 3 0 1 0 ourage you 8 4 5 4 3 0	2.29 .36 .11 1.89	1 1 1	0. < 0. < 0. < 0. <	
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	ITEM		RE	SPONS	ES		X≈	df	P
22.	About how many people are there in your town?		5,000- 19,000	500- -4,999	20- 499	less than 20			
	Total Dropouts Total Non-Dropouts	18 52	3:2 -47	19 46	36	5	10.77	-1	< .05
	Male Dropouts Male Non-Dropouts	8 25	13 27	11	41 17	17 -1	5.21	-1	> .05
	Female Dropouts Female Non-Dropouts	10 27	19 20	23 9 23	20 19 21	15 1 2	6.61	3	> .05
23.	How far from your home was your school located?	l-5 mile		6-15 miles		6 or 10re			
	Total Dropouts Total Non-Dropouts	87 177		$\frac{22}{24}$		6	3.92	ì	< .05
	Male Dropouts Male Non-Dropouts	42 98		9 12		5 1	1.60	ì	> .05
	Female Dropouts Female Non-Dropouts	46 79		13 12		0	2.02	1	> .05
24.	Did you work outside of school?		Yes		N	lo .			
	Total Dropouts		31		8		.00	l	> .05
	Total Non-Dropouts Male Dropouts Male Non-Dropouts		55 20 50		149 33	5	1.14	1	> .05
	Female Dropouts Female Non-Dropouts		11 5		61 49 88)	6.54	1	< .50
25.	How many brothers and sisters do you have?	none	e 19	2, or 3	4 or	more			
	Total Dropouts Total Non-Dropouts	8 21		41 120	7		24.27	2	< .01
	Male Dropouts Male Non-Dropouts	5 15		18 62	3		13.97	2	< .01
	Female Dropouts Female Non-Dropouts	3 6		23 58	3		11.02	2	< .01
26.	Did you feed tired?	never	seldo	on ofte		very often			
	Total Dropouts Total Non-Dropouts	21 20	59 135		5		11.07	3	< .05
	Male Dropouts	12	26 69] (0	9	5.90	3	> .05
	Male Non-Dropouts Female Dropouts Female Non-Dropouts	15 9 5	33 66	10	5	8 4 2	5.57	2	> .05
	Did you have any trouble with the other students or teachers?	never	seldo	om ofte		very often			
	Total Dropouts Total Non-Dropouts	40 66	61 125	10) 3	7 5	4.91	3	> .05
	Male Dropouts Male Non-Dropouts	17 30	28 72	8		4 3	2.82	2	> .05
	Female Non-Dropouts Female Non-Dropouts	24 36	33 53	9		$\frac{3}{3}$.10	ì	> .05

3 > .05 3 > .05 2 > .05 3 > .05 3 > .05
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	ITEM		I	RESP(ONSE	S		X:*	ci f	I.
34.	Have you ever completed a project or partipated in any of these groups?	i-		Yes		No	_			
	Total Dropouts Total Non-Dropouts			54 47		67 57		24.22	1	< .01
	Male Dropouts Male Non-Dropouts			26 75		34 36		9.46	1	< .01
	Female Dropouts Female Non-Dropouts			28 72		34 21		16.91	ì	< .01
Att	itudes Toward Education	:								
35.	A man can earn more by working four years than by going to high school.	s strong	ais-	slight dis- agree-	sligh agree		strong agree-			
	Total Dropouts Total Non-Dropouts	57 117	14 28	21 24	7 18	8 11	14 6	13.77	5	< .05
	Male Dropouts Male Non-Dropouts	21 65	7 11	13 15	2 11	5 5	12 2	12.78	3	< .01
	Female Dropouts Female Non-Dropouts	36	7 17	8	5 7	3 6	2 4	1.63	3	> .05
36.	Most young people are getting too much education.	strong dis- agree- ment	0.0	slight dis- agree-			strong agree-			
	Total Dropouts Total Non-Dropouts	74 124	16 28	14 25	9 15	4 8	4 3	.08	3	> .05
	Male Dropouts Male Non-Dropouts	38 71	8 11	6 13	3 6	3 5	3 2	.55	2	> .05
	Female Dropouts Female Non-Dropouts	36 53	8 17	8 12	6 9	i 3	Î I	.61	3	> .05
37.	Our schools encourage an individual to think for himself.	strong dis-	moder- ate dis- agree- ment	slight			strong agree-			
	Total Dropouts Total Non-Dropouts	12 21	15 12	19 21	12 20	25 68	39 62	10.02	5	> .05
	Male Dropouts Male Non-Dropouts	9 15	10 7	11 11	6 11	7 28	18 37	9.90	5	> .05
	Female Dropouts Female Non-Dropouts	3 6	5 5	8 10	6 9	18 40	21 25	2.88	3	> .05
88.	High school courses are too impractical.	strong dis- agree- ment	moder- ate dis- agree- ment	slight dis- agree- ment	slight agree- ment	agree-	strong			
	Total Dropouts Total Non-Dropouts	31 42	29 43	29 48	12 38	8 22	10 9	8.27	5	> .05
	Male Dropouts Male Non-Dropouts	17 26	15 22	13 17	4 22	5 13	5 7	6.65	4	> .05
	Female Dropouts	14	14	16	8	3	5	1.91	4	> .5

DISCUSSION OF RESULTS

An analysis of the results reveals rather clearly that dropouts have a poorer academic record in seventh grade than non-dropouts. The dropouts surveyed reported they were failing more subjects and had been retained in school more years than non-dropouts. As a result of being retained more years in school, it was expected and found that students who eventually dropped out of school were older than their classmates who continued.

It is interesting and surprising to note that dropouts did not report liking arithmetic less than non-dropouts or spending less time reading. Although there were significant differences for total groups and males on the question, "did you think you were getting enough out of school?" there was no difference for females. In response to the question, "did you like your schoolwork?" dropouts did not indicate they disliked their schoolwork any more than non-dropouts. What is surprising is the fact that 30 per cent of the dropouts indicated "seldom" or "no" to the question, "did you like your schoolwork?" and 28 per cent of the non-dropouts so answered.

No differences were indicated between dropouts and non-dropouts in the number of friends they had or their liking of other students. However, all dropout groups thought teachers liked them less and the total dropout group and females indicated they liked teachers less when compared with the responses of non-dropouts. Male dropouts did not indicate they liked teachers less than male non-dropouts. Also, there were no differences between any of the groups to the question, "did you feel the teachers were fair to you?" Here again it is interesting to note that 21 per cent of the dropouts felt teachers were seldom or never fair to them and 13 per cent of the non-dropouts felt teachers were seldom or never fair. In general, it seems that dropouts perceived their relationship with other students to be somewhat better than their relationships with teachers.

Male dropouts appeared to enter more into school activities than female dropouts. No differences were reported between male dropouts and male non-dropouts on the number of school teams or clubs they belonged to or their attendance at school ball games, dances or parties. Differences were found for these items for total dropouts and female dropouts.

Although father's and mother's education was lower for all dropout groups than non-dropout groups, no support was gained

for differences in parental encouragement or expectations between dropouts and non-dropouts. However, dropouts indicated it was not as important to them that they graduate from high school. Also, dropouts indicated more often than non-dropouts that they did not feel they would be able to graduate from high school. The reasons for not being able to graduate were not assessed.

The size of town lived in and distance from school differentiated total groups but not the sub-groups of males and females. Contrary to the belief that more dropouts come from broken homes, no difference was found between the number of dropouts and non-dropouts who lived with both parents, one parent or neither parent. Dropouts did, however, have more brothers and sisters.

Only one of the items attempting to get at the attitudes to-ward education produced significant differences. Total dropouts and males were more in agreement than non-dropouts with the statement, "a man can earn more by working four years than by going to high school." No differences were found between the groups in degree of agreement or disagreement to the statements: "most young people are getting too much education", "our schools encourage an individual to think for himself," and "high school courses are too impractical."

SUMMARY AND CONCLUSIONS

Many items on the inventory did not differentiate dropouts and non-dropouts as expected. Thirty-eight items were used; only twenty were significant for the total groups of dropouts and nondropouts, fifteen for males and sixteen for females.

Certain limitations are recognized in the method of this study but, due to practical considerations, could not be avoided. A longitudinal approach rather than the retrospective one used (asking students to respond as they would have in the seventh grade) would be desirable. However, a longitudinal study offers little for the immediate action which is sorely needed for this problem. Data collection on a longitudinal basis is being planned. Another limitation is the collection of data from individuals after they have become members of the criterion groups, i.e., dropouts and non-dropouts. There is no assurance that responses are the same as they would have been prior to the subject becoming dropouts.

The study did reveal items that differentiated dropouts and non-dropouts on a retrospective basis and, if used, are expected to

be helpful in the identification of dropout prone students in the Appalachian junior high schools.

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APPENDIX A

THE MINK SCALE

N.	NAME	• • • • • • • • • • • • • • • • • • • •	•		
	(Las	t)	(First)	Middle)
SC	CHOOL	•••••••••			•••••
D)	ar fo fo se	formation wand school peor information completing	ill permit.] rsonnel acqu n to compl g individual	or the subject as Refer to schoon nainted with the ete on item. I items which ound at the en	l records e subject Directions are not
]	PART I		
		Academic Abil	lity and Perfor	mance	
l.	. How many years the other students	older or younge in his grade?	er is he than l	-1 0 1 2 -1 -1 -1 -1	3 or more □
	. Has he been retai	Ū		yrs. 3 yrs. 4 or me	ore
	. What is his curre			B C D	F
	. Is he presently fa	, ,			
	. Is his reading leve				
	. What is his IQ				.00
7.	Special projects co (i.e., 4-H, Scouts) Describe	ompleted in or			4 or more
	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	
8.	Special hobbies?	0 1 2	3 4 or mo □ □	re	
	Specify			• • • • • • • • • • • • • • • • • • • •	
		PA	ART II		
	N	legative Identifie	cation with Edi	ucation	
1.	Is he usually happ	y in school?			Yes No □ □
		3	30		



:	2. Does he participate in extracurricular activities such as sport, band, clubs?	Yes	No □
;	3. Is he absent 20 or more days a year? (pro-rate)	Yes	No
•	4. Does he seem to be liked by his schoolmates?	Yes	□ No
:	5. Does he attend formal school functions? (dances, parties, special clubs, etc.)	Yes	
6	5. Does he claim little or no interest in schoolwork?	Yes	□ No
7	Does he resent school controls?	Yes	No
8	3. Do the teachers like or show an interest in him?	Yes	No.
9	. Is overageness apparent?	Yes	□ No
10	. Does he like to read?	□ Yes	No.
11.	. Does he seem to particularly like one teacher or teachers?	□ Yes	Νο □
	PART III		
	Family and Socio-Economic Status		
1.	Is father's occupation unskilled or semi-skilled? Please list	Yes	No
2.	Is the parents' attitude apathetic or negative toward completing his high school education?	∏ Yes □	No
3.	Education completed by mother: Post H.S. H.S. Grad. 8-11 5-8	less th	_
4.	Education completed by father: Post H.S. H.S. Grad. 8-11 5-8	less tha	an 5
5.	Do parents frequently point out his weaknesses?	Yes	No
6.	Is his home more than 5 miles from school?	Yes □	No
7.	Does anyone beside his parents and siblings live in his home?	Yes	No
	Please list		
_			
	Number of brothers and/or sisters who did not finish 0 1 2 3 high school. \square \square \square	4 or m □	ore
9.	How many brothers does he have? 0 1 2 3	4 or m	ore
	How many sisters does he have? 0 1 2 3 \[\sum_{\text{\tiny{\text{\tiny{\tinite\text{\texi{\text{\text{\text{\text{\tinit}}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\xint{\text{\text{\text{\text{\tinit}}\\ \tint{\text{\text{\text{\tinit}}\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	4 or m	ore
11.	Are his parents of northern European extraction?	Yes	No □

ERIC Arabitas Provided by 1800

12.	What is the estimated family income: less the	m \$3000 \$3000-\$8000 \$8000 or more
13.	Are parents interested in school policies an	nd practices? Yes No
14.	Does he reside with his biological parents?	Yes No □ □
	PART IV	
	Personal	
I.	Does the student appear to lack the basic fin	ancial requirements Yes No
	of school? Explain	
2.	How many hours per week does the studen (Either in the home such as farm chores or outside the home.)	t work? less than 5 5-10 10-15 16-20 20
3.	Is the student frequently ill or easily fatigu	ed? Yes No
4.	Is there an obvious physical handicap?	Yes No
5.	Does the student feel sorry for himself?	Seldom Sometimes Frequently
6.	Does he feel that standards are set too high for him?	Seldom Sometimes Frequently
7.	How many schools has he attended?	1 2 3 4 5 or more
8.	Is the student too small or too big for his a	nge? Yes No
9.	Does he have a discipline record at school?	Seldom Sometimes Frequently
10.	Do teachers say he is irritating in class?	Seldom Sometimes Frequently
11.	Has he ever purposely damaged school proper	rty? Seldom Sometimes Frequently
12.	Would you describe his best friend as planni	ing to quit school? Yes No
Dire	ections for completion of items which are no	ot self-explanatory.
stan Do	t I—Item 8. Determine how many special hobbods, etc. the student has engaged in over a not include short-term hobbies that are engathen dropped.	fairly extensive period of time.
Part muc	2-Item 1. Determine if the student is hap h or more so than outside of the school envi	py in the school environment as ronment.
num of s	2—Item 3. Pro rate the absence rate for the aber of absences per month to date and then chool remaining. If less than three months	consider the number of months



Part 2-Item 4. Determine whether or not students generally like him by including him in formal and informal social activities.

Part 2-Item 6. Judge if the student, either by word or deed, indicates that school work is of little or no interest to him.

Part 2-Item 7. Determine if the student shows by his behavior that the rules necessary for conducting a school are ones that he resents or not.

Part 2—Item 8. Judge if the teachers seem to have at least average interest in the student or do they exhibit a dislike for him by such behavior as constant harassing or total neglect.

Part 2—Item: 11. Determine if there is at least one teacher the student seems to like by such behavior as frequently visiting outside of formal class sessions, working harder for than other teachers, etc.

Part 3-Item 2. Determine if the parents never encourage educational activities by the student or if there is active discouragement.

Part 3-Item 5. Judge if the parents frequently downgrade the student by pointing out to him his shortcomings, actual or imagined.

Part 3-Item 13. Determine whether or not the parents show some evidence of interest in school policies and practices by attendance at school functions or encouragement of the student to continue and be active in the educational program.

Part 4-Item 1. This item should be checked "yes" if the student seems not to have money for books, paper, lunch, etc.

Part 4—Item 5. Determine whether or not the student is frequently depressed by his plight of not meeting up to others performance either socially or academically. Does he feel sorry for himself in such instances?

Part 4-Item 6. Judge whether or not the student feels that too much is expected of him in the school situation. Does he feel pushed to excel beyond his capabilities.

Part 4-Item 10. Determine if teachers frequently remark or complain that the student's behavior in class is irritating or upsetting to them and/or other class members.



APPENDIX B

THE SMITH INVENTORY

We are asking a few questions which will help us to know you better. Make a check in the block which best describes you. Before you start, print your name, school, and other requested information in the spaces indicated below.

Му	name is					
			first)		(last)	
		(or was)				······································
		-			(year)	
		about				inches.
1.		d were you in 13 or under 14-15 over 15	the 7th g	rade?		
2.		one		jects in th	e 7th grade?	
3.			ou spenď :	eading a	day?	
4.			arithmetic	ć.		
5.			a grade be	ore the 7	th grade?	

6.	Did you think you were getting enough out of your school?
	usually
	seldom
-	
j.	Did you like your school work?
	yes usualiy
	seldom
	no
8.	How many days have you missed classes during the 7th grade?
	20 or more days
9.	Did you like other students in your class? almost all
	most of them
	a few of them
	almost no one
10.	How did you like your school? very much
	much
	little very little
1 e	•
11.	Did you attend school ball games, dances or parties?
	seldom
	often
	very often
12.	How do you think your teachers liked you? very much
	much
	little
	very little
14.	How did you get along with other students in your class? very well
	well
	not very well
	not at all
	2.5

15.	How many friends did you have in school? more than 10 5-10 less than 5
16.	To how many school teams or clubs did you belong?
17.	Hiow far did your father go in school? 12th grade or higher 8th to 11th grade 7th grade or less
18.	How far did your mother go in school?
19.	Do you think your parents:
20.	In your school work, did your parents: encourage you discourage you
21.	Did you live with: both your mother and father either your mother or father neither
22.	About how many people are there in your town?
23.	How far from your home was your school located?

2	4. Did you work outside of school?
	yes
	no
25.	How many brothers and sisters do you have?
26.	Did you feel tired?
27.	Did you have any trouble with the other students or teachers?
28.	Have you ever been sick?
29.	Were the teachers fair to you?
30.	Was it important to you that you graduate from high school? yes no
31.	Did you think that you would be able to graduate from high school? yes probably doubtful

<i>32</i> .	Did you do your homework?							
	very often							
	often							
		seldom						
		never						
33.	church	ou belong to a groups? none 1-4	any organi	zation such	as 4-H, B	oy Scouts		
		5 or mo	~ ^					
34.		of these gro yes	mpleted a pr oups?	oject or pa	rticipated in	activities		
	agree agreen	and others on ment or disa	ted below ar disagree. Ple greement wi lowing the s	ase indicate th the state	the amou	nt of your		
35.		n can earn n n school.	more by wo	rking four	years than	by going		
	trong greement	Moderate Disagreement	Slight Disagreement	Slight Agreement	Moderate Agreement	Strong Agreement		
36.	Most 3	oung peop!	e are getting	too much	education.			
S	trong	Moderate	Slight Disagreement	Slight	Moderate	Strong Agreement		
37.	Our sc	hools encou	rage an indi	vidual to th	ink for hin	nself.		
St	trong	Moderate	Slight Disagreement	Slight	Moderate Agreement	Strong		
38.	High se	chool course	s are too im	practical.				
~.			Slight Disagreement		Moderate Agreement	Strong Agreement		